IED STAFF REPORT

COUNTRY.REPORT

A Prompting Program for Accessing
World Grain and Macroeconomic Data

by

Richard K. Matta

July 1981

International Economics Division • Economics and Statistics Service • USDA

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Abstract

This report is an update of the June 1980 publication of the COUNTRY.REPORT programs. These programs are designed to access the ERS data bases and provide county reports containing grain supply/utilization and macroeconomic data. The program also now provides a time-trend/graphics option and a SPEAKEASY data-set creation option. Modifications have been made to increase processing speed and to allow program execution in batch. If you have any questions or comments on this program, contact William E. Kost or Richard K. Matta (202-447-8470).

Keywords: grain data, macroeconomic data, computer program, database, SPEAKEASY

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COUNTRY.REPORT: A Prompting Program for Accessing World Grain and Macroeconomic Data

by Richard K. Matta

This program is designed to access the ESCS database and provide a SPEAKEASY dataset, tabular output, or tables and graphs of selected IMF International Financial Statistics (IFS) macroeconomic and FAS grain supply/utilization data for individual countries and regions. Only a minimum of input is required from the user. Access to the program is through an interactive terminal. Output, however, may be directed to the high-speed line printers as a batch run. This is suggested for three or more countries.

To save turnaround time and decrease connection costs of interactive use, grain data is accessed through OASIS. When the program is to be executed interactively, a region size of at least 500 must be specified in the logon command. See example below:

```
ologon ers75 size(500)
```

This size parameter is not necessary to enter data for batch execution.

To access both the batch and interactive versions of the program, the user should enter the following command into the terminal after the logon procedure:

```
exec  'ers75.er3rm.country.report.clist'
```

The terminal will then ask whether the program is to be submitted in the batch mode or run interactively.

INTERACTIVE MODE

In this interactive version, the program enters OASIS after a brief initialization period. The user will then be prompted with the symbol ":__" and must enter a size command:

```
:__ size(200)
```

OASIS next prompts the user for his ersid (logon identification) and terminal type. After entering this information, the user should type the following line:

:__ get coreport on report; coreport

Any additional information requested by the terminal will be self-explanatory.

No more than 10 countries may be entered at a time in the interactive mode for historic or forecast output (and it is suggested that no more than three be entered). Only one country may be entered if the user wishes to save the data. If data sets are to be saved for more than one country, then each will have to be renamed or stored by the user before another country is entered. If this is not done, previously obtained variables will be written over and lost.

The list of codes and country names in the program is more complete than the countries reported in IFS, because it includes a number of countries and regions for which no macroeconomic data are available. The country names available, along with their IFS and OASIS codes, can be obtained within the program, and are reprinted in this report.

BATCH MODE

For entering more than three countries, or for less expensive processing, the batch mode is suggested. An interactive program prompts the user for the necessary information, then directs the execution to the high-speed printers in Room 190. The logon procedure is essentially identical to the interactive mode, except that a size parameter is not needed. The COUNTRY.REPORT program ('ers75.er3rm.country.report.clist') allows the user to choose either batch or interactive processing.

The program prompts for the following information:

1. Standard batch jobname of 8 characters. (6 characters required by WCC plus a suffix of the user's choosing).

2. 10 digit account number.

3. Remote terminal where output is to be directed (RMT3 or RMT13).

4. Priority: 1 -- weekend
   3 -- overnight
   13 -- ASAP

5. Job class: D - for most small jobs, up to 10 countries. F-when both historic and forecast data are specified, or for large jobs. I (instead of D) or N (instead of F) are required if xerox output is desired. See WCC handbook.

6. Id and Password to access grain data, available from World Analysis Branch. These correspond to the "OSF" logical group of TDAM.

In addition, a SPEAKEASY CHECKPOINT file is required, containing the following variables:

N = number of countries or regions

NAME = ARRAY (N, 3: " character array of IFS codes ")

COUNTRY = ARRAY (N, 30: " character array of country/region names ")

This file may be created by the user, or more easily through the program. The program prompts will be self-explanatory.

The program allows for xeroxed output. A separate request form for such output must be submitted to the terminal operator. The xerox request form can also be obtained from the terminal room operator. The job class must allow for the use of mountables (magnetic tape). See WCC handbook and above.

NOTE ON COSTS

Because of the OASIS core requirements and the amount of data which is required for execution, the program is not inexpensive to run, especially the interactive version. Thus it is suggested that the batch version be used

except when quick turnaround is desired or the user is going to save variables for later use. The advantage of the program, however, is that it saves even more costly programming time required to retrieve the data on an individual basis. Although actual costs depend on a number of factors and cannot be readily estimated, recent program runs (March, 1981) suggest that $15-20 should be expected for one country using the interactive version. Batch runs at priority 1 should cost approximately $4-8 for one country. Expect additional countries to add about 60% of these costs.

COUNTRY.REPORT
SAMPLE RUN

Creating a CHECKPOINT file

```
exec °ers75.er3rm.country.report.clist°
**** THANK YOU ERS75 FOR USING THE "COUNTRY REPORT" PROGRAM ****

     IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS
     SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.

     DO YOU WISH THIS TO BE A BATCH RUN? (Y OR N):y

*****************************************************************


DO YOU HAVE A SPEAKEASY CHECKPOINT CONTAINING A LIST OF
COUNTRIES, COUNTRY CODES, AND THE NUMBER OF COUNTRIES? (Y OR N):
n

DO YOU WISH TO CREATE A CHECKPOINT FILE? (Y OR N):
y

TO DO SO IS QUITE EASY.  SIMPLY ENTER UP TO 50 IFS OR
OASIS COUNTRY CODES, AND THE PROGRAM WILL DO THE REST.

BEGIN -- ENTER ONE OASIS OR IFS CODE PER LINE (THEY MAY BE
ENTERED INTERCHANGEABLY) -- TYPE STOP TO END:

:*110
:*111
:*156
:*158
:*122
:*124
:*128
:*132
:*134
:*136
110 111 156 158 122 124 128 132 134 136

ARE THESE CODES CORRECT SO FAR? (Y OR N):
y
:*137
:*138
:*142
:*144
:*146
:*112
:*stop
137 138 142 144 146 112

ARE THESE CODES CORRECT? (Y OR N):
y

THIS LIST, ALONG WITH THE CORRESPONDING COUNTRY OR REGION
NAMES, WILL BE SAVED IN A SPEAKEASY CHECKPOINT.

PLEASE ENTER A NAME FOR THIS CHECKPOINT (LESS THAN 8 CHARS):
sample

THIS LIST WILL BE SAVED AS "ERS75.SAMPLE.SPEKSAVE"

A COPY OF THE FILE WILL BE PRINTED IN BATCH SO PLEASE
ENTER THE REMOTE TERMINAL DESIRED (RMT3 OR RMT13):
rmt13
```

```
PLEASE ENTER A STANDARD BATCH JOBNAME FOR THIS
PRINTOUT (EXACTLY 8 CHARACTERS):
ers3rmxx

ENTER YOUR 10 DIGIT ACCOUNT NUMBER:
[redacted]

WHAT IS YOUR PRIORITY? (1 FOR WEEKEND, 3 FOR AVERAGE, 13 FOR ASAP):
*** NOTE THAT PRIORITY 13 COSTS 3 TIMES PRIORITY 3 ***
1


************************************
JOBNAME=ERS3RMXX  ACCOUNT=[redacted]
          PRIORITY=1
************************************

IS THIS CORRECT? (Y OR N):
y

TOP OF DATA SET
DATA SET NOT LINE NUMBERED

JOB ERS3RMXX(JOB06422) SUBMITTED  **  FREE ALL FILES  **


YOU MAY NOW CONTINUE AND PRINT OUT THE DATA FOR THESE COUNTRIES IF YOU WISH.
TO DO SO, HIT THE RETURN KEY. TO QUIT, TYPE -- QUIT:

quit
READY
```

```
     SPEAKEASY III NU+  7:22 PM MARCH 17, 1981
NOECHO
ONERROR(NOMESSAGE NOTRACE CONTINUE)
MARGINS(133)
GET GETCODE ON REPORT
N=16
KK=INTS(5,34)
LL=INTS(1,3)
$
COUNTRY=ARRAY(N,3:"   ")
NAME=ARRAY(N,30:"      ")
CODEAR=ARRAY(N*3:"   ")
CODEAR="1101111561581221"
CODEAR=CODEAR,"2412813213413613"
CODEAR=CODEAR,"7138142144146112"
GET NAMEFIND ON REPORT
NAMEFIND
FREEIF IFSLOC I JJ GETCODE NAMEFIND AA III OSFLOC
CHECKPOINT SAMPLE
NO=INTS(1 N)
TABULATE NO COUNTRY NAME

  NO  COUNTRY                NAME
 ...  .......  ...............................
   1    110    INDUSTRIAL COUNTRIES + EUROPE
   2    111    UNITED STATES
   3    156    CANADA
   4    158    JAPAN
   5    122    AUSTRIA
   6    124    BELGIUM
   7    128    DENMARK
   8    132    FRANCE
   9    134    GERMANY
  10    136    ITALY
  11    137    LUXEMBOURG(GRAIN SEE BELGIUM)
  12    138    NETHERLANDS
  13    142    NORWAY
  14    144    SWEDEN
  15    146    SWITZERLAND
  16    112    UNITED KINGDOM

 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
 SPACE USED  3 K NOW,  15 K PEAK,  SIZE   100 K
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
```

```
exec °ers75.er3rm.country.report.clist°
**** THANK YOU ERS75 FOR USING THE "COUNTRY REPORT" PROGRAM ****

     IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS
     SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.

     DO YOU WISH THIS TO BE A BATCH RUN? (Y OR N):y

**************************************************************

DO YOU HAVE A SPEAKEASY CHECKPOINT CONTAINING A LIST OF
COUNTRIES, COUNTRY CODES, AND THE NUMBER OF COUNTRIES? (Y OR N):
y
PLEASE CHOOSE ONE OF THE FOLLOWING OPTIONS FOR OUTPUT:

**********************************************************

** HISTORIC DATA ** THIS IS THE DEFAULT ** ENTER °HIST°  **
**            MACROECONOMIC AND GRAIN DATA               **

** FORECAST DATA **  TABLES AND GRAPHS  ** ENTER °FORE°  **
**    PRODUCTION, CONSUMPTION, AND NET IMPORTS ONLY      **
** SIMPLE LINEAR AND DOUBLE-LOG PROJECTIONS FOR 5 YEARS  **

**   BOTH HISTORIC AND FORECAST DATA    ** ENTER °BOTH°  **

**********************************************************
PLEASE ENTER ONE OF THE ABOVE OPTIONS:
HIST

ENTER A STANDARD BATCH JOBNAME FOR THE BATCH
PRINTOUT (EXACTLY 8 CHARACTERS):
ers3rm02
ENTER YOUR 10 DIGIT ACCOUNT NUMBER:
[redacted]
ENTER THE REMOTE TERMINAL (RMT13 FOR ESCS OR RMT3 FOR FAS):
rmt13
IS THE OUTPUT TO BE ON XEROX? (Y OR N):
n

WHAT IS YOUR PRIORITY? (1 FOR WEEKEND, 3 FOR AVERAGE, 13 FOR ASAP)
*** NOTE THAT PRIORITY 13 COSTS 3 TIMES PRIORITY 3 ***
1
WHAT IS THE JOB CLASS? (USUALLY D FOR UP TO 10 COUNTRIES,
BUT SEE WCC HANDBOOK FOR OTHER CLASSES IF A LARGE NUMBER
OF COUNTRIES IS BEING SUBMITTED):
d
```

```
**********************************************
JOBNAME=ERS3RM02 ACCOUNT=[redacted] ROUTE=RMT13
    FORM=1431 PRIORITY=1 CLASS=D
**********************************************

IS THIS CORRECT? (Y OR N):
y
AN ID AND A PASSWORD ARE REQUIRED TO ACCESS GRAIN DATA.
(THESE CAN BE OBTAINED FROM ED OVERTON)

PLEASE ENTER ID:
[redacted]
OK, ENTER PASSWORD:
[redacted]
PLEASE ENTER THE NAME OF YOUR CHECKPOINT FILE
CONTAINING THE LIST OF COUNTRIES AND CODES:
testsave

TOP OF DATA SET
DATA SET NOT LINE NUMBERED

JOB ERS3RM02(JOB06484) SUBMITTED  **  FREE ALL FILES  **

READY
```

```
USING D2IOR VERSION 08-01-79, 1100  (V3.01)
USING DATA FILE OF 03/14/81 AT 160027

** RECORD NOT FOUND **



** RECORD NOT FOUND **









** RECORD NOT FOUND **



** RECORD NOT FOUND **



** RECORD NOT FOUND **


OK

OK

OK

      SPEAKEASY III NU+  8:08 PM MARCH 17, 1981
SIZE(450)
INPUT...SIZE(450)
NOECHO
ONERROR(NOMESSAGE NOTRACE CONTINUE)
RESTORE TESTSAVE
      FROM  5:52 PM  3/13/81
      NAME DUPLICATION ON RESTORE
ID="[redacted]"
PASSWD="[redacted]"
BRANCH='HIST'
GET BATCHRPT ON REPORT
EXECUTE BATCHRPT
```

UNITED STATES		MACROECONOMIC CONDITIONS			
VARIABLE	UNITS	ANNUAL			
YEAR	YEAR.QUARTER	1976	1977	1978	1979
IMPORTS	BILLIONS OF US$	-124.04	-151.71	-175.83	-211.5
EXPORTS	BILLIONS OF US$	114.76	120.82	142.05	182.05
CURACCT					
RESERVES	MILLIONS OF US$	18319	19393	19582	19984
WEEKS	WEEKS	7.6795	6.6471	5.7913	4.9133
EXRATE1	U S DOLLARS	1	1	1	1
EXRATE2	U S DOLLARS	1	1	1	1
CPI	INDEX NUMBER	105.8	112.7	121.2	134.9
WPI	INDEX NUMBER	103.2	100.9	94.1	93.2
PCE	BILLIONS OF US$	1089.9	1210	1350.9	1509.8
INDPROD					
GDP	BILLIONS OF US$	1687.7	1881.7	2107	2343.5
GNP	BILLIONS OF US$	1702.2	1899.5	2127.6	2368.8
POP		215.15	216.88	218.72	220.58

VARIABLE	UNITS	QUARTERS					
YEAR	YEAR.QUARTER	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
IMPORTS	BILLIONS OF US$	-51.31	-54.11	-59.54	-65.01	-62.5	
EXPORTS	BILLIONS OF US$	44.43	44.6	51.69	53.87	56.52	
CURACCT							
RESERVES	MILLIONS OF US$	22062	19595	19984	21907	23035	23977
WEEKS	WEEKS	5.5898	4.7077	4.3633	4.3807	4.7913	
EXRATE1	U S DOLLARS	1	1	1	1	1	1
EXRATE2	U S DOLLARS	1	1	1	1	1	1
CPI	INDEX NUMBER	132.8	137.2	141.2	146.7	152	154.8
WPI	INDEX NUMBER	94.4	92.2	93.8	93.8	93.8	91.9
PCE	BILLIONS OF US$	1475.9	1528.6	1580.4	1629.5	1626.6	1683.3
INDPROD							
GDP	BILLIONS OF US$	2306.1	2369.5	2430.6	2492	2491.3	2556.6
GNP	BILLIONS OF US$	2329.8	2396.5	2456.9	2520.8	2521.3	2586.5
POP							

CURACCT = BALANCE ON CURRENT ACCOUNT
RESERVES = INTERNATIONAL RESERVES
WEEKS = WEEKS OF IMPORT COVERAGE
EXRATE1 = EXCHANGE RATE, LOCAL CURRENCY/$, END OF PERIOD
EXRATE2 = EXCHANGE RATE, $/LOCAL CURRENCY, END OF PERIOD
PCE = PRIVATE CONSUMPTION
INDPROD = INDUSTRIAL PRODUCTION
POP = POPULATION

DATA SOURCE: INTERNATIONAL FINANCIAL STATISTICS, IMF
DATE = 8.1014E8

UNITED STATES SUPPLY AND UTILIZATION OF WHEAT

YEAR	AREA HAR-VEST 1000 HECT	YIELD MT/ HECT	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	JULY-JUNE IMP FR US 1000 MET TONS	JULY-JUNE TOT EXP 1000 MET TONS
1961	20870	1.607	38411	33539	150	19672	16448	1268		19672
1962	17680	1.681	35980	29718	140	17305	16004	616		17305
1963	18416	1.695	32529	31211	111	23104	16215	214		23104
1964	20138	1.734	24532	34928	37	19347	17908	2485		19347
1965	20056	1.786	24984	35816	27	22881	19984	4110		23367
1966	20078	1.769	17962	35516	27	20741	18802	2723		19980
1967	23615	1.738	13962	41041	27	20505	17379	1061		20197
1968	22163	1.912	17146	42375	27	14426	20492	4273		14693
1969	19080	2.058	24630	39263	82	16111	21084	5080		16478
1970	17630	2.086	26780	36783	27	19849	21370	5245		19929
1971	19298	2.283	22371	44052	27	16311	23332	7139		16906
1972	19143	2.198	26807	42081	27	30382	22285	5470		31771
1973	21913	2.125	16246	46560	82	33120	20517	3470		31253
1974	26454	1.833	9253	48496	82	27719	18273	1064		28285
1975	28126	2.058	11839	57868	54	31924	19731	1034		31678
1976	28692	2.038	18126	58487	82	25855	20549	2041		26080
1977	26993	2.063	30291	55684	54	30590	23378	5253		31538
1978	22865	2.114	32061	48336	27	32500	22776	4327		32311
1979	25293	2.296	25148	58079	54	37422	21283	2313		37198
1980	28692	2.248	24576	64502	54	41504	22861	3402		41500

DATA SOURCE: FAS DATABASE
DATE = 8.1014E8

UNITED STATES SUPPLY AND UTILIZATION OF RICE

YEAR	AREA HAR-VEST 1000 HECT	YIELD MT/ HECT	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	JULY-JUNE IMP FR US 1000 MET TONS	JULY-JUNE TOT EXP 1000 MET TONS
1961	643	2.742	330	1763	13	936	997			1050
1962	718	2.971	173	2133	1	1119	937			1197
1963	717	3.201	251	2295	1	1385	917			1317
1964	723	3.3	245	2386	15	1387	1008			1549
1965	725	3.444	251	2497	22	1418	1081			1347
1966	796	3.524	271	2805		1719	1079			1801
1967	797	3.701	278	2950		1887	1119			1846
1968	952	3.633	222	3459		1819	1330			1851
1969	861	3.488	532	3003	7	1791	1215			1695
1970	734	3.809	536	2796	48	1474	1295			1415
1971	736	3.856	611	2838	36	1808	1305			1965
1972	736	3.842	372	2828	17	1788	1262			1589
1973	878	3.456	167	3034	7	1607	1346			1702
1974	1024	3.581	255	3667		2207	1483			2070
1975	1140	3.588	232	4090		1744	1373			2045
1976	1004	3.766	1205	3781	3	2105	1610			2270
1977	910	3.429	1274	3120	3	2267	1251			2261
1978	1201	3.557	879	4272	3	2431	1686			2263
1979	1161	3.728	1037	4328	3	2701	1822			2950
1980	1333	3.579	845	4771		3100	1700			3200

DATA SOURCE: FAS DATABASE
DATE = 8.1014E8

UNITED STATES SUPPLY AND UTILIZATION OF COARSE GRAIN

YEAR	AREA HARVEST 1000 HECT	YIELD MT/ HECT	BEGINNING STOCKS 1000 MET TONS	PRODUCTION 1000 MET TONS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMPTION TOTAL 1000 MET TONS	JULY-JUNE IMP FR US 1000 MET TONS	JULY-JUNE TOT EXP 1000 MET TONS
1961	43241	2.948	77423	127490	398	15250	124387	111566		14354
1962	42036	3.083	65674	129605	145	15242	121567	108678		15520
1963	43174	3.249	58615	140271	287	16653	119466	106101		15977
1964	40000	3.064	63054	122546	375	19629	116338	102866		17714
1965	39490	3.652	51472	144207	304	25718	130047	115993		25406
1966	40152	3.609	40218	144921	271	20101	129785	115526		20945
1967	41311	3.944	35524	162922	283	20682	132448	117860		19718
1968	39782	3.903	45599	155261	308	16301	137679	122705		16006
1969	39187	4.126	47188	161682	352	18955	144170	128883		19226
1970	40735	3.587	46097	146106	363	18612	141789	126851		19414
1971	43637	4.343	32165	189533	343	24165	151284	136002		20757
1972	38377	4.743	46592	182013	442	38747	158567	142302		35603
1973	41628	4.487	31733	186777	221	40669	156218	139485		44472
1974	40685	3.709	21844	150905	494	35925	121838	105409		34357
1975	42625	4.351	15480	185444	437	50031	134000	115633		46339
1976	43268	4.492	17330	194355	349	50604	131380	113276		50593
1977	44223	4.652	30050	205731	304	56290	138313	119220		52116
1978	43157	5.147	41482	222140	261	60199	157242	137346		56910
1979	41824	5.709	46442	238765	302	71372	161864	140062		71632
1980	40404	4.917	52273	198681	259	74333	155783	131392		74303

DATA SOURCE: FAS DATABASE
DATE = 8.1014E8

UNITED STATES SUPPLY AND UTILIZATION OF TOTAL GRAIN

YEAR	AREA HAR-VEST 1000 HECT	YIELD MT/ HECT	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	JULY-JUNE IMP FR US 1000 MET TONS	JULY-JUNE TOT EXP 1000 MET TONS
1961	64754	2.514	116164	162792	561	35858	141832	112834		35076
1962	60434	2.672	101827	161456	286	33666	138508	109294		34022
1963	62307	2.789	91395	173777	399	41142	136598	106315		40398
1964	60861	2.627	87831	159860	427	40363	135254	105351		38610
1965	60271	3.028	76707	182520	353	50017	151112	120103		50120
1966	61026	3.003	58451	183242	298	42561	149666	118249		42726
1967	65723	3.148	49764	206913	310	43074	150946	118921		41761
1968	62897	3.197	62967	201095	335	32546	159501	126978		32550
1969	59128	3.449	72350	203948	441	36857	166469	133963		37399
1970	59099	3.142	73413	185685	438	39935	164454	132096		40758
1971	63671	3.713	55147	236423	406	42284	175921	143141		39628
1972	58256	3.895	73771	226922	486	70917	182114	147772		68963
1973	64419	3.669	48148	236371	310	75396	178081	142955		77427
1974	68163	2.979	31352	203068	576	65851	141594	106473		64712
1975	71891	3.442	27551	247422	491	83699	155104	116667		80062
1976	72964	3.517	36661	256623	434	78564	153539	115317		78943
1977	72126	3.668	61615	264535	361	89147	162942	124473		85915
1978	67223	4.087	74422	274748	291	95130	181704	141673		91484
1979	68278	4.411	72627	301172	359	111495	184969	142375		111780
1980	70429	3.805	77694	267954	313	118937	180344	134794		119003

DATA SOURCE: FAS DATABASE
DATE = 8.1014E8

* *

SPACE USED 41 K NOW, 51 K PEAK, SIZE 450 K

* *

COUNTRY.REPORT
SAMPLE RUN

BATCH MODE: HISTORIC AND FORECAST OUTPUT

NOTE: In the batch mode, the system design causes all graphs to be printed before any other output. They are printed out sequentially and can be easily matched to the proper headings.

```
exec °ers75.er3rm.batchpgm.clist°

DO YOU HAVE A SPEAKEASY CHECKPOINT CONTAINING A LIST OF
COUNTRIES, COUNTRY CODES, AND THE NUMBER OF COUNTRIES? (Y OR N):
y
PLEASE CHOOSE ONE OF THE FOLLOWING OPTIONS FOR OUTPUT:

**********************************************************

** HISTORIC DATA ** THIS IS THE DEFAULT ** ENTER °HIST°  **
**            MACROECONOMIC AND GRAIN DATA                **

** FORECAST DATA **  TABLES AND GRAPHS  ** ENTER °FORE°  **
**    PRODUCTION, CONSUMPTION, AND NET IMPORTS ONLY       **
** SIMPLE LINEAR AND DOUBLE-LOG PROJECTIONS FOR 5 YEARS  **

**   BOTH HISTORIC AND FORECAST DATA    ** ENTER °BOTH°  **

**********************************************************
PLEASE ENTER ONE OF THE ABOVE OPTIONS:
both

ENTER A STANDARD BATCH JOBNAME FOR THE BATCH
PRINTOUT (EXACTLY 8 CHARACTERS):
ers3rm03
ENTER YOUR 10 DIGIT ACCOUNT NUMBER:
[redacted]
ENTER THE REMOTE TERMINAL (RMT13 FOR ESCS OR RMT3 FOR FAS):
rmt13
IS THE OUTPUT TO BE ON XEROX? (Y OR N):
n

WHAT IS YOUR PRIORITY? (1 FOR WEEKEND, 3 FOR AVERAGE, 13 FOR ASAP)
*** NOTE THAT PRIORITY 13 COSTS 3 TIMES PRIORITY 3 ***
1
WHAT IS THE JOB CLASS? (USUALLY D FOR UP TO 10 COUNTRIES,
BUT SEE WCC HANDBOOK FOR OTHER CLASSES IF A LARGE NUMBER
OF COUNTRIES IS BEING SUBMITTED):
d

************************************************
JOBNAME=ERS3RM03 ACCOUNT=[redacted] ROUTE=RMT13
    FORM=1431 PRIORITY=1 CLASS=D
************************************************

IS THIS CORRECT? (Y OR N):
y
AN ID AND A PASSWORD ARE REQUIRED TO ACCESS GRAIN DATA.
(THESE CAN BE OBTAINED FROM ED OVERTON)

PLEASE ENTER ID:
[redacted]
OK, ENTER PASSWORD:
[redacted]
PLEASE ENTER THE NAME OF YOUR CHECKPOINT FILE
CONTAINING THE LIST OF COUNTRIES AND CODES:
testsave

TOP OF DATA SET
DATA SET NOT LINE NUMBERED
JOB ERS3RM03(JOB06503) SUBMITTED  **  FREE ALL FILES  **

READY
```

```
USING D2IOR VERSION 08-01-79, 1100  (V3.01)
USING DATA FILE OF 03/14/81 AT 160027

** RECORD NOT FOUND **



** RECORD NOT FOUND **









** RECORD NOT FOUND **



** RECORD NOT FOUND **



** RECORD NOT FOUND **


OK

OK

OK
```

```
      SPEAKEASY III NU+  7:51 PM MARCH 20, 1981
SIZE(450)
INPUT...SIZE(450)
NOECHO
ONERROR(NOMESSAGE NOTRACE CONTINUE)
RESTORE TESTSAVE
      FROM  5:52 PM  3/13/81
      NAME DUPLICATION ON RESTORE
ID="[redacted]"
PASSWD="[redacted]"
BRANCH='BOTH'
GET BATCHRPT ON REPORT
EXECUTE BATCHRPT
```

UNITED STATES		MACROECONOMIC CONDITIONS			
VARIABLE	UNITS	ANNUAL			
YEAR	YEAR.QUARTER	1976	1977	1978	1979
IMPORTS	BILLIONS OF US$	-124.04	-151.71	-175.83	-211.5
EXPORTS	BILLIONS OF US$	114.76	120.82	142.05	182.05
CURACCT					
RESERVES	MILLIONS OF US$	18319	19393	19582	19984
WEEKS	WEEKS	7.6795	6.6471	5.7913	4.9133
EXRATE1	U S DOLLARS	1	1	1	1
EXRATE2	U S DOLLARS	1	1	1	1
CPI	INDEX NUMBER	105.8	112.7	121.2	134.9
WPI	INDEX NUMBER	103.2	100.9	94.1	93.2
PCE	BILLIONS OF US$	1089.9	1210	1350.9	1509.8
INDPROD					
GDP	BILLIONS OF US$	1687.7	1881.7	2107	2343.5
GNP	BILLIONS OF US$	1702.2	1899.5	2127.6	2368.8
POP		215.15	216.88	218.72	220.58

VARIABLE	UNITS	QUARTERS					
YEAR	YEAR.QUARTER	1979.1	1979.2	1979.3	1979.4	1980.1	1980.2
IMPORTS	BILLIONS OF US$	-51.31	-54.11	-59.54	-65.01	-62.5	
EXPORTS	BILLIONS OF US$	44.43	44.6	51.69	53.87	56.52	
CURACCT							
RESERVES	MILLIONS OF US$	22062	19595	19984	21907	23035	23977
WEEKS	WEEKS	5.5898	4.7077	4.3633	4.3807	4.7913	
EXRATE1	U S DOLLARS	1	1	1	1	1	1
EXRATE2	U S DOLLARS	1	1	1	1	1	1
CPI	INDEX NUMBER	132.8	137.2	141.2	146.7	152	154.8
WPI	INDEX NUMBER	94.4	92.2	93.8	93.8	93.8	91.9
PCE	BILLIONS OF US$	1475.9	1528.6	1580.4	1629.5	1626.6	1683.3
INDPROD							
GDP	BILLIONS OF US$	2306.1	2369.5	2430.6	2492	2491.3	2556.6
GNP	BILLIONS OF US$	2329.8	2396.5	2456.9	2520.8	2521.3	2586.5
POP							

CURACCT = BALANCE ON CURRENT ACCOUNT
RESERVES = INTERNATIONAL RESERVES
WEEKS = WEEKS OF IMPORT COVERAGE
EXRATE1 = EXCHANGE RATE, LOCAL CURRENCY/$, END OF PERIOD
EXRATE2 = EXCHANGE RATE, $/LOCAL CURRENCY, END OF PERIOD
PCE = PRIVATE CONSUMPTION
INDPROD = INDUSTRIAL PRODUCTION
POP = POPULATION

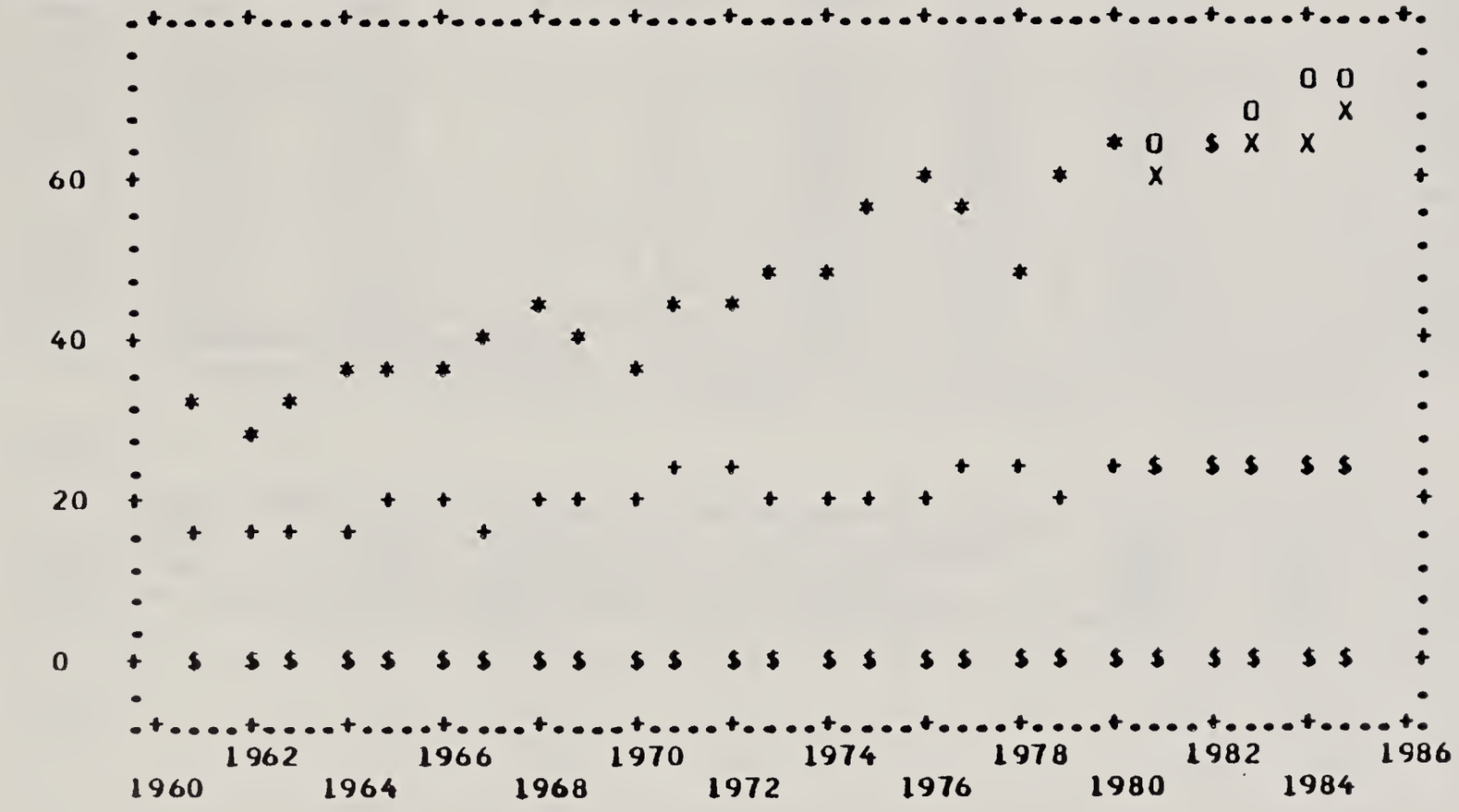
DATA SOURCE: INTERNATIONAL FINANCIAL STATISTICS, IMF
DATE = 8.1014E8

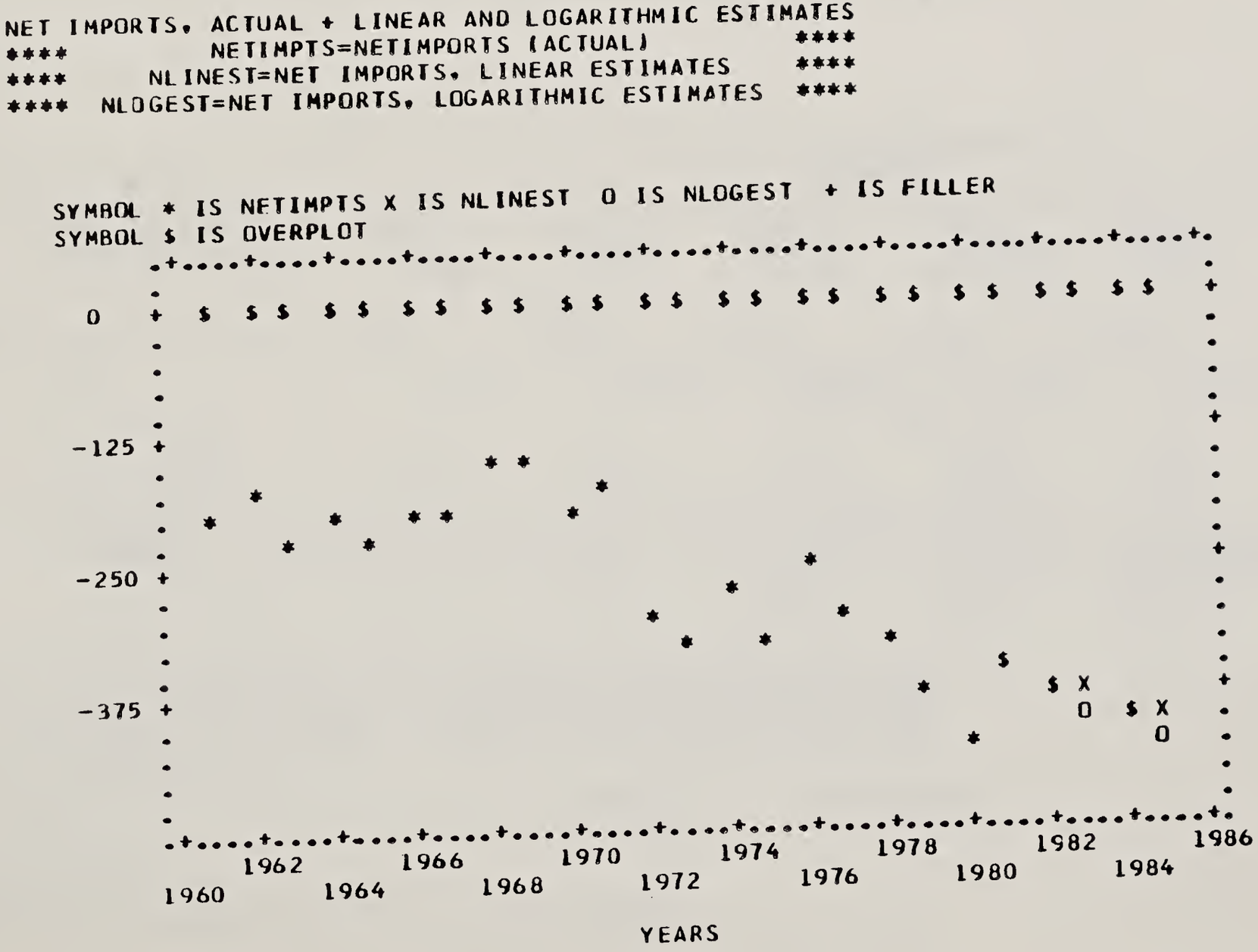
**** NOTE **
POINTS PLOTTED AT '0' ARE CREATED BY THE PROGRAM
PLEASE DISREGARD

************ UNITED STATES WHEAT ************

PRODUCTION AND CONSUMPTION. ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** PRODCTN=PRODUCTION (ACTUAL) CNSMPTN=CONSUMPTION (ACTUAL) ****
**** PLINEST,CLINEST=PRODUCTION AND CONSUMPTION LINEAR ESTIMATES ****
**** PLOGEST,CLOGEST=PRODUCTION AND CONSUMPTION LOGARITHMIC ESTS ****

SYMBOL * IS PRODCTN X IS PLINEST O IS PLOGEST + IS CNSMPTN a IS CLINEST # IS CLOGEST
SYMBOL $ IS OVERPLOT




NET IMPORTS, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** NETIMPTS=NETIMPORTS (ACTUAL) ****
**** NLINEST=NET IMPORTS, LINEAR ESTIMATES ****
**** NLOGEST=NET IMPORTS, LOGARITHMIC ESTIMATES ****
SYMBOL * IS NETIMPTS X IS NLINEST O IS NLOGEST + IS FILLER
SYMBOL $ IS OVERPLOT
0
-125
-250
-375
1960
1962
1964
1966
1968
1970
1972
1974
1976
1978
1980
1982
1984
1986
YEARS

UNITED STATES SUPPLY AND UTILIZATION OF WHEAT

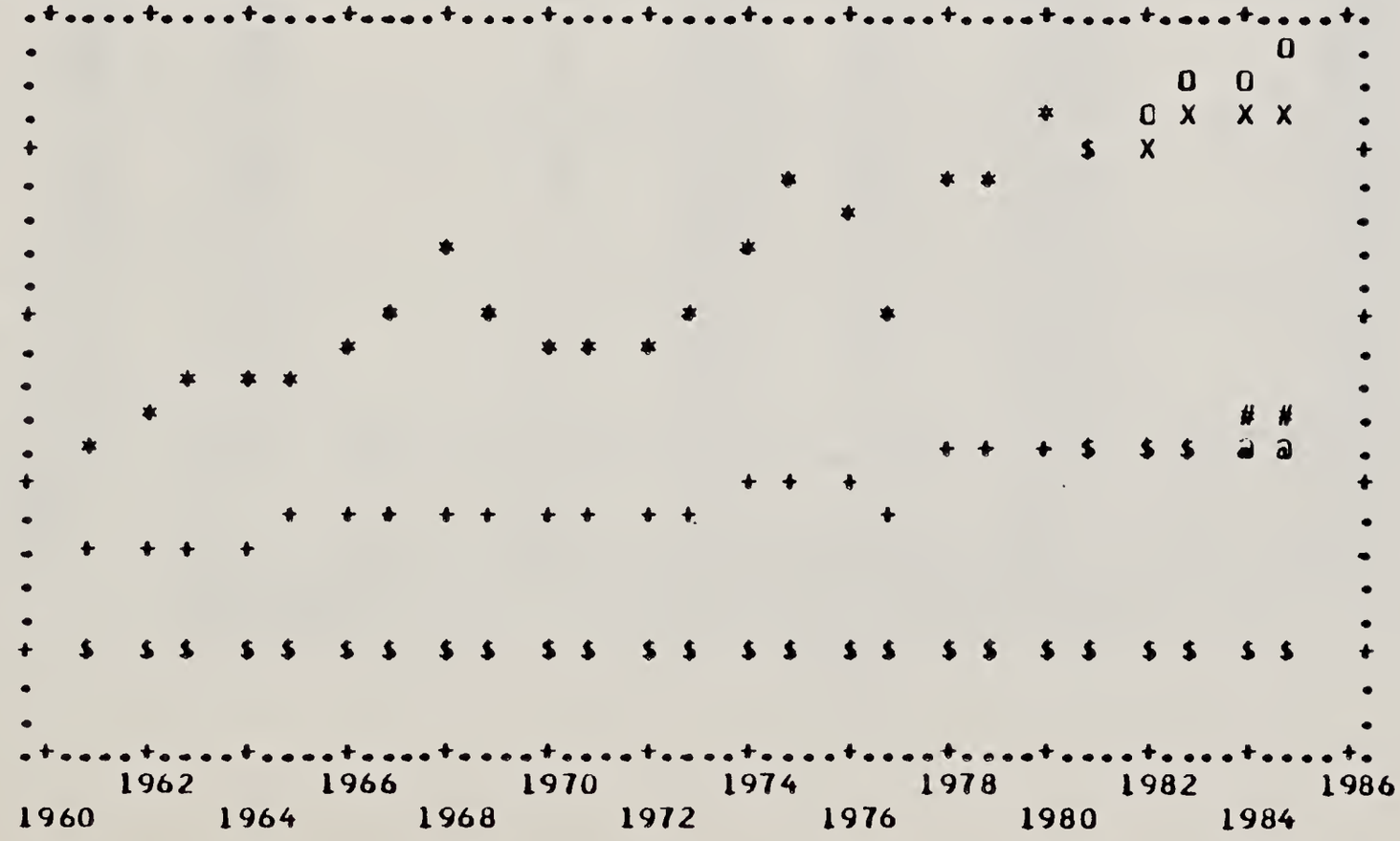
	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	PROD LOG ESTS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	CONS LOG ESTS	NET IMPORTS 1000 MET TONS	NET IMPS LOG ESTS
1961	38411	33539		150	19672	1268	16448		-19522	
1962	35980	29718		140	17305	616	16004		-17165	
1963	32529	31211		111	23104	214	16215		-22993	
1964	24532	34928		37	19347	2485	17908		-19310	
1965	24984	35816		27	22881	4110	19984		-22854	
1966	17962	35516		27	20741	2723	18802		-20714	
1967	13962	41041		27	20505	1061	17379		-20478	
1968	17146	42375		27	14426	4273	20492		-14399	
1969	24630	39263		82	16111	5080	21084		-16029	
1970	26780	36783		27	19849	5245	21370		-19822	
1971	22371	44052		27	16311	7139	23332		-16284	
1972	26807	42081		27	30382	5470	22285		-30355	
1973	16248	46560		82	33120	3470	20517		-33038	
1974	9253	48496		82	27719	1064	18273		-27637	
1975	11839	57888		54	31924	1034	19731		-31870	
1976	18126	58487		82	25855	2041	20549		-25773	
1977	30291	55684		54	30590	5253	23378		-30536	
1978	32061	48336		27	32500	4327	22776		-32473	
1979	25148	58079		54	37422	2368	21310		-37368	
1980	24549	64502		54	41504	3402	22862		-41450	
FORE-CASTS										
1981		61086	63131				23257	23491	-35768	-36014
1982		62693	65464				23564	23865	-36793	-37446
1983		64300	67883				23871	24246	-37818	-38934
1984		65906	70391				24177	24632	-38843	-40481
1985		67513	72992				24484	25025	-39869	-42090
RSQR		862	885				581	587	621	570
X1000										
		20	20				20	20	20	20
N:										

**** NOTE **
POINTS PLOTTED AT '0' ARE CREATED BY THE PROGRAM
PLEASE DISREGARD

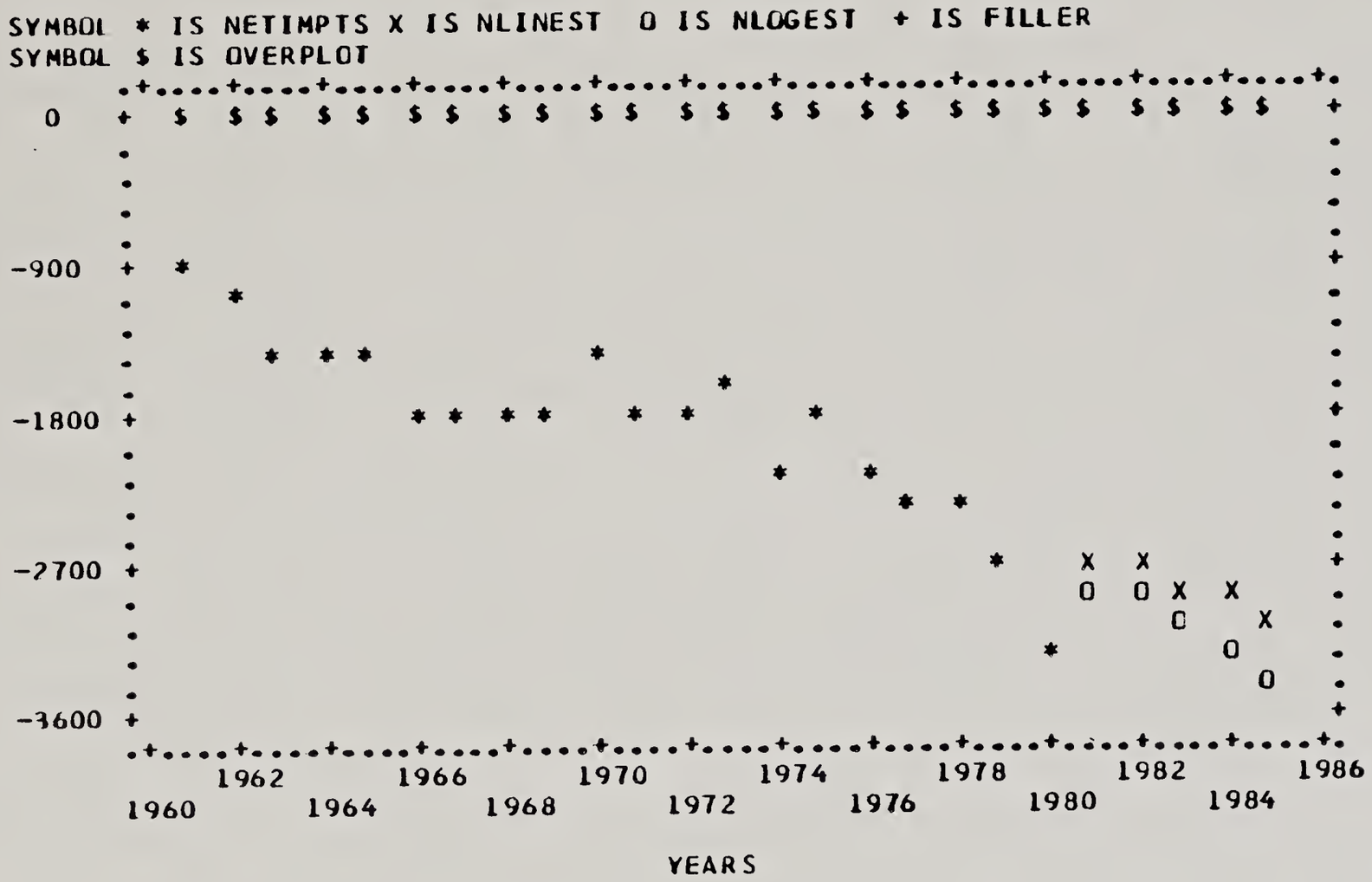
************ UNITED STATES RICE ************

PRODUCTION AND CONSUMPTION, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** PRODCTN=PRODUCTION (ACTUAL) CNSMPTN=CONSUMPTION (ACTUAL) ****
**** PLINEST,CLINEST=PRODUCTION AND CONSUMPTION LINEAR ESTIMATES ****
**** PLOGEST,CLOGEST=PRODUCTION AND CONSUMPTION LOGARITHMIC ESTS ****

SYMBOL * IS PRODCTN X IS PLINEST 0 IS PLOGEST + IS CNSMPTN @ IS CLINEST # IS CLOGEST
SYMBOL $ IS OVERPLOT



NET IMPORTS, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** NETIMPTS=NETIMPORTS (ACTUAL) ****
**** NLINEST=NET IMPORTS, LINEAR ESTIMATES ****
**** NLOGEST=NET IMPORTS, LOGARITHMIC ESTIMATES ****



UNITED STATES SUPPLY AND UTILIZATION OF RICE

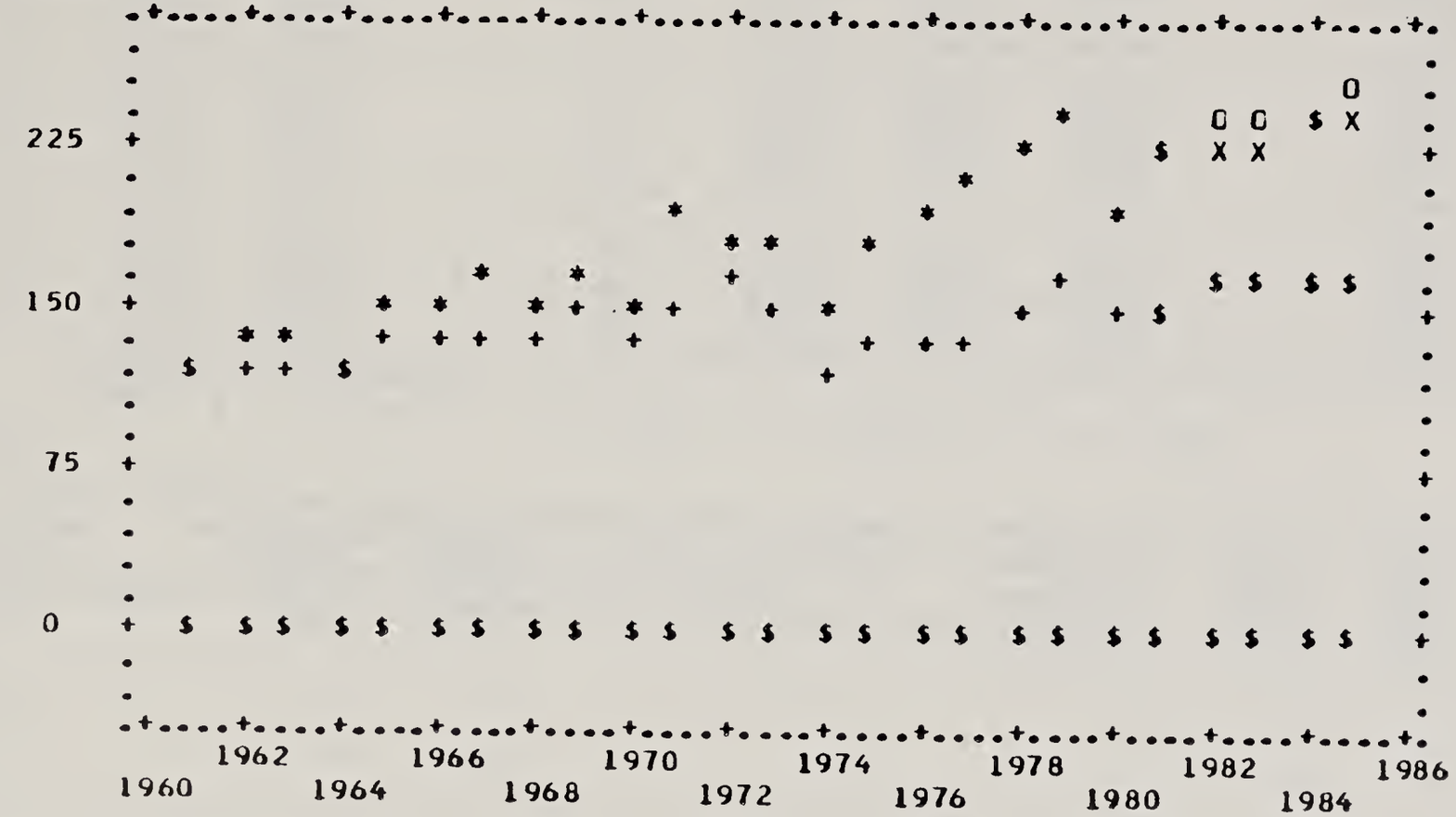
	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	PROD LOG ESTS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	CONS LOG ESTS	NET IMPORTS 1000 MET TONS	NET IMPS LOG ESTS
1961	330	1763		13	936		997		-923	
1962	173	2133		1	1119		937		-1118	
1963	251	2295		1	1385		917		-1384	
1964	245	2386		15	1387		1008		-1372	
1965	251	2497		22	1418		1081		-1396	
1966	271	2805			1719		1079		-1719	
1967	278	2950			1887		1119		-1887	
1968	222	3459			1819		1330		-1819	
1969	532	3003		7	1791		1215		-1784	
1970	536	2796		48	1474		1295		-1426	
1971	611	2838		36	1808		1305		-1772	
1972	372	2828		17	1788		1262		-1771	
1973	167	3034		7	1607		1346		-1600	
1974	255	3667			2207		1483		-2207	
1975	232	4090			1744		1373		-1744	
1976	1205	3781		3	2105		1610		-2102	
1977	1274	3120		3	2267		1251		-2264	
1978	879	4272		3	2431		1686		-2428	
1979	1037	4328		3	2706		1817		-2703	
1980	845	4771			3200		1781		-3200	
FORE-CASTS										
1981		4418	4606				1735	1781	-2675	-2797
1982		4540	4791				1777	1839	-2755	-2924
1983		4661	4983				1819	1899	-2836	-3056
1984		4783	5184				1861	1962	-2916	-3195
1985		4904	5392				1903	2026	-2996	-3339
RSOR		810	823				847	869	771	791
X1000		20	20				20	20	20	20
N:										

**** NOTE **
POINTS PLOTTED AT '0' ARE CREATED BY THE PROGRAM
PLEASE DISREGARD

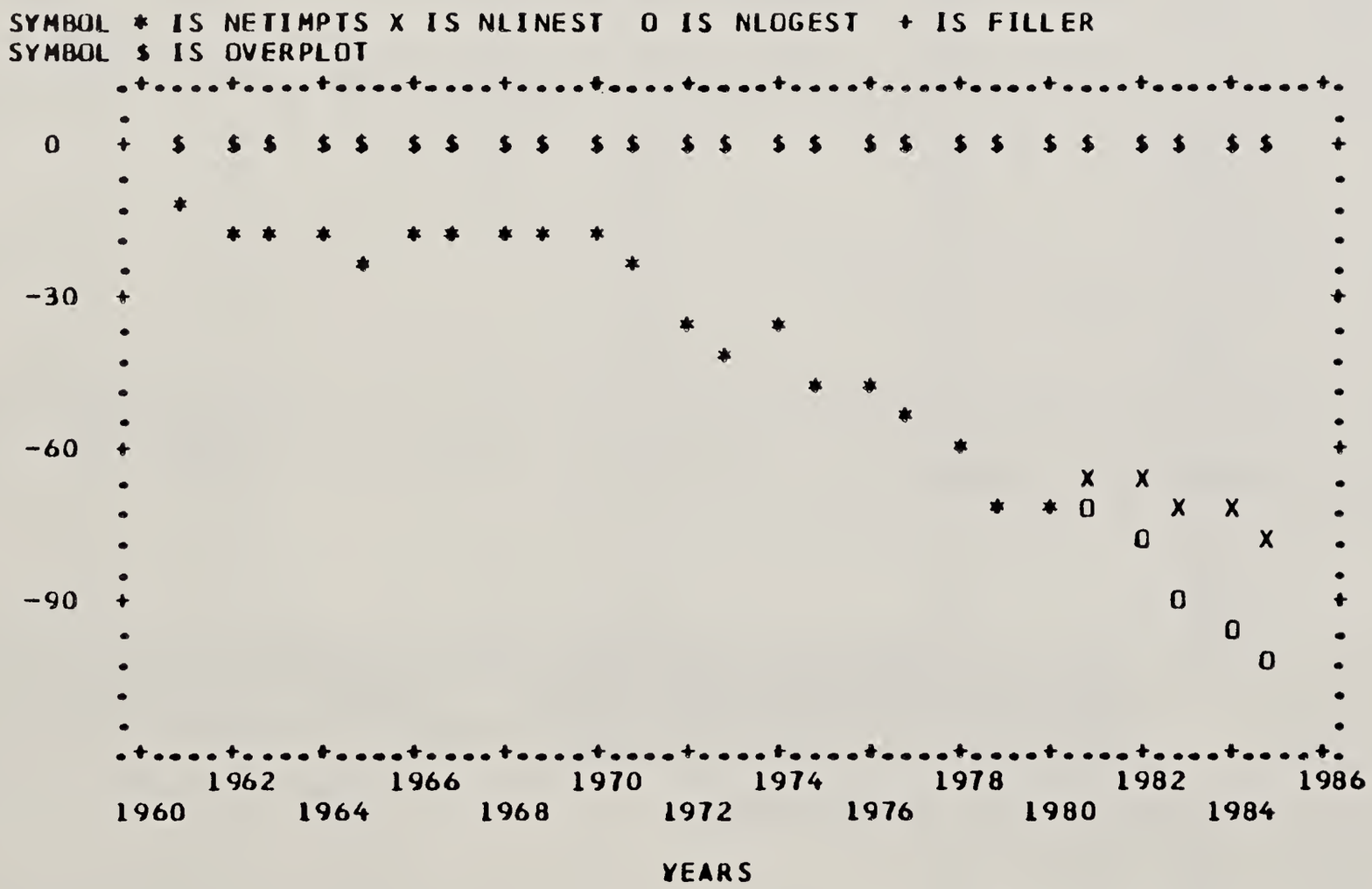
********** UNITED STATES COARSE GRAIN **********

PRODUCTION AND CONSUMPTION. ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** PRODCTN=PRODUCTION (ACTUAL) CNSMPTN=CONSUMPTION (ACTUAL) ****
**** PLINEST,CLINEST=PRODUCTION AND CONSUMPTION LINEAR ESTIMATES ****
**** PLOGEST,CLOGEST=PRODUCTION AND CONSUMRTION LCGARITHMIC ESTS ****

SYMBOL * IS PRODCTN X IS PLINEST 0 IS PLOGEST + IS CNSMPTN @ IS CLINEST # IS CLOGEST
SYMBOL $ IS OVERPLOT



NET IMPORTS, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** NETIMPTS=NETIMPORTS (ACTUAL) ****
**** NLINEST=NET IMPORTS, LINEAR ESTIMATES ****
**** NLOGEST=NET IMPORTS, LOGARITHMIC ESTIMATES ****



UNITED STATES SUPPLY AND UTILIZATION OF COARSE GRAIN

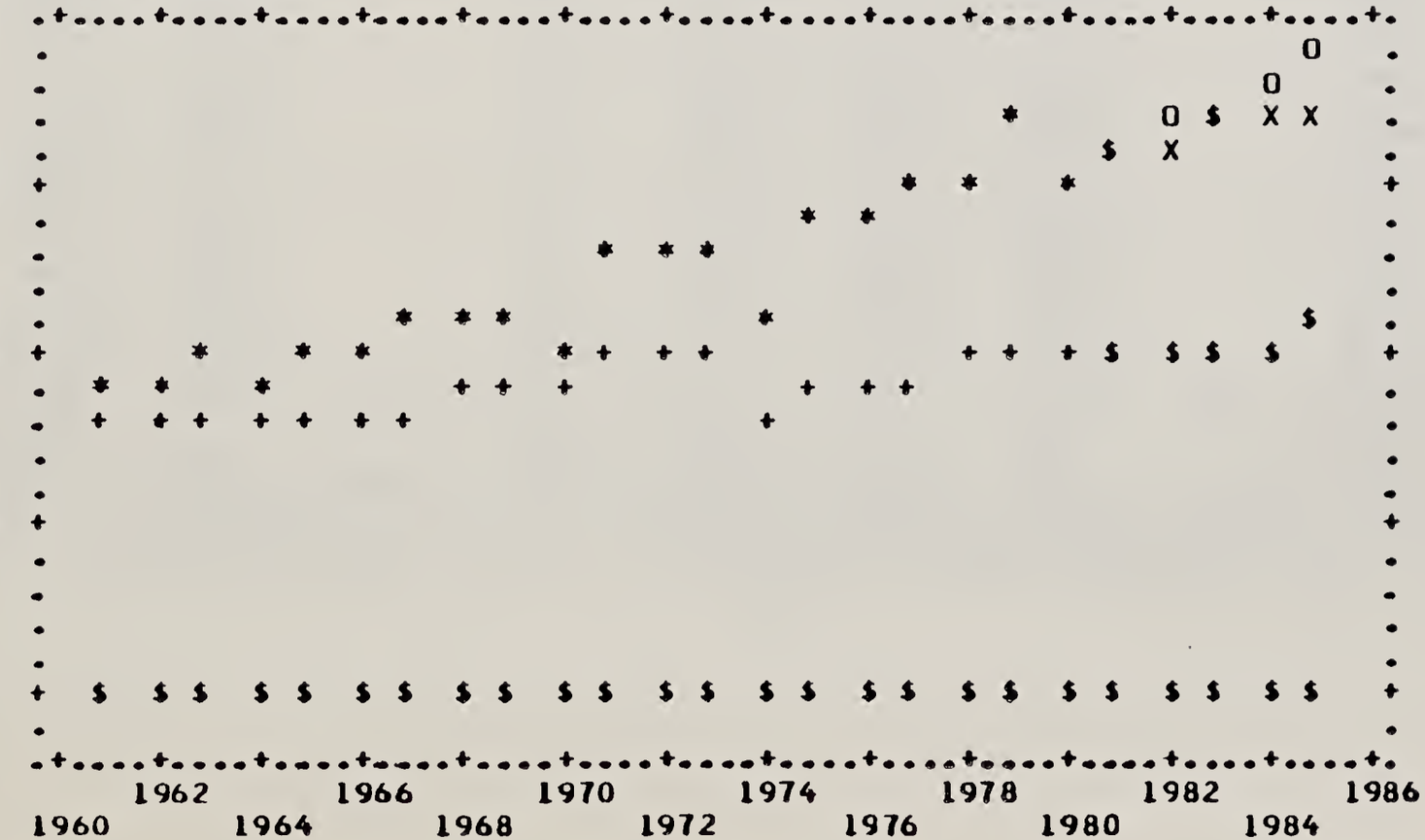
	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	PROD LOG ESTS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	CONS LOG ESTS	NET IMPORTS 1000 MET TONS	NET IMPS LOG ESTS
1961	77423	127490		398	15250	111566	124387		-14852	
1962	65674	129605		145	15242	108678	121567		-15097	
1963	58615	140271		287	16653	106101	119466		-16366	
1964	63054	122546		375	19629	102866	116338		-19254	
1965	51472	144207		304	25718	115993	130047		-25414	
1966	40218	144921		271	20101	115526	129785		-19830	
1967	35524	162922		283	20682	117860	132448		-20399	
1968	45599	155261		308	16301	122705	137679		-15993	
1969	47188	161682		352	18955	128883	144170		-18603	
1970	46097	146106		363	18612	126851	141789		-18249	
1971	32165	189533		343	24165	136002	151284		-23822	
1972	46592	182013		442	38747	142302	158567		-38305	
1973	31733	186777		221	40669	139485	156218		-40448	
1974	21844	150905		494	35925	105409	121838		-35431	
1975	15480	185444		437	50031	115633	134000		-49594	
1976	17330	194355		349	50604	113276	131380		-50255	
1977	30050	205731		304	56290	119220	138313		-55986	
1978	41482	222140		261	60199	137346	157242		-59938	
1979	46442	238765		302	71372	139608	161414		-71070	
1980	52723	198672		259	73072	131426	155812		-72813	
FORE-CASTS										
1981		221666	226505				155954	156314	-65801	-73643
1982		226637	233236				157646	158237	-68821	-80389
1983		231609	240168				159338	160185	-71842	-87754
1984		236580	247306				161031	162156	-74862	-95793
1985		241551	254656				162723	164151	-77883	-104568
RSOR X1000		809	823				480	482	839	868
N:		20	20				20	20	20	20

**** NOTE **
POINTS PLOTTED AT '0' ARE CREATED BY THE PROGRAM
PLEASE DISREGARD

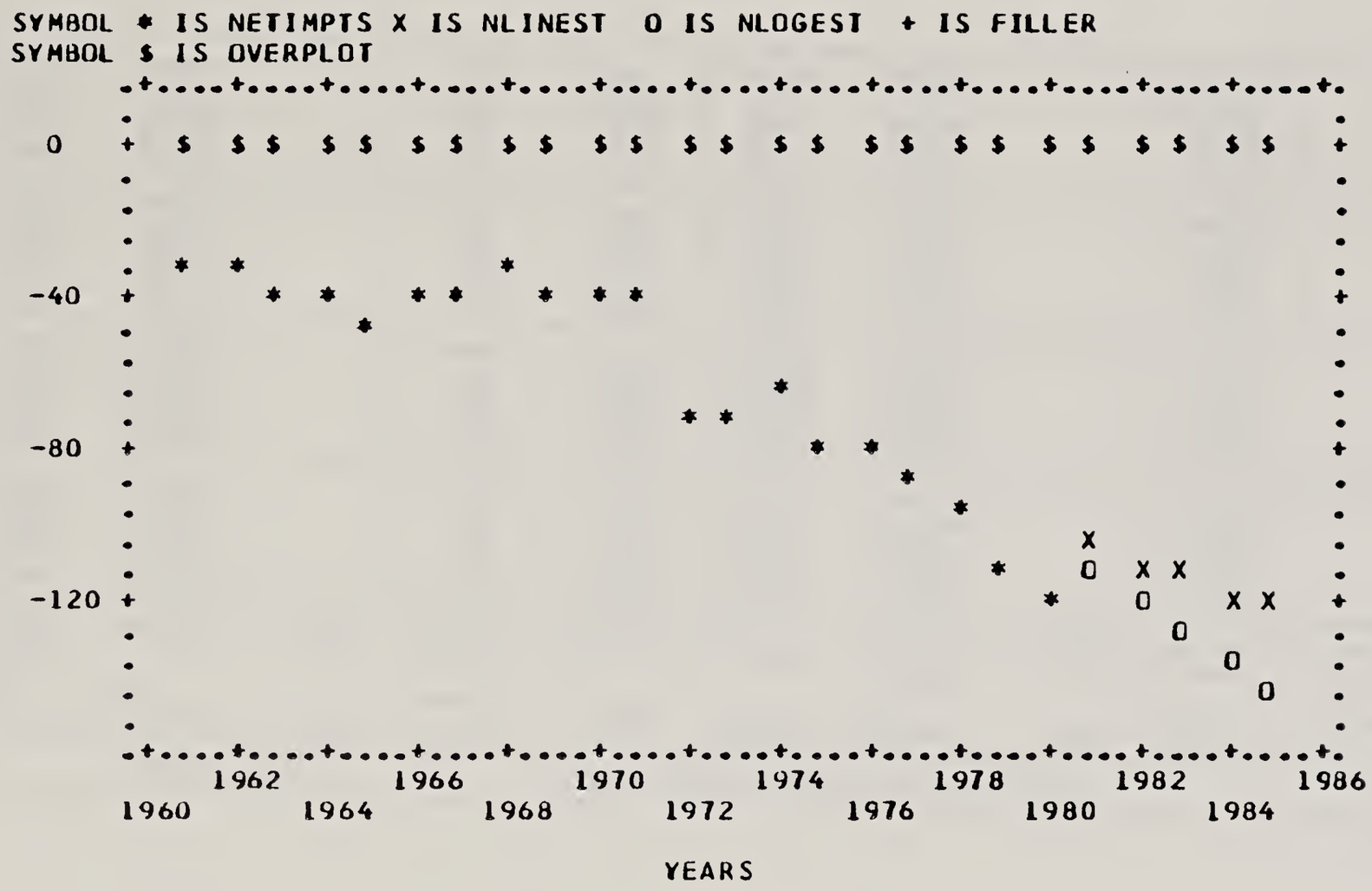
************ UNITED STATES TOTAL GRAIN ************

PRODUCTION AND CONSUMPTION, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** PRODCTN=PRODUCTION (ACTUAL) CNSMPTN=CONSUMPTION (ACTUAL) ****
**** PLINEST,CLINEST=PRODUCTION AND CONSUMPTION LINEAR ESTIMATES ****
**** PLOGEST,CLOGEST=PRODUCTION AND CONSUMPTION LOGARITHMIC ESTS ****

SYMBOL * IS PRODCTN X IS PLINEST 0 IS PLOGEST + IS CNSMPTN @ IS CLINEST # IS CLOGEST
SYMBOL $ IS OVERPLOT



NET IMPORTS. ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** NETIMPTS=NETIMPORTS (ACTUAL) ****
**** NLINEST=NET IMPORTS. LINEAR ESTIMATES ****
**** NLOGEST=NET IMPORTS. LOGARITHMIC ESTIMATES ****



UNITED STATES SUPPLY AND UTILIZATION OF TOTAL GRAIN

	BEGIN-NING STOCKS 1000 MET TONS	PRODUC-TION 1000 MET TONS	PROD LOG ESTS	TOTAL IMPORTS 1000 MET TONS	TOTAL EXPORTS 1000 MET TONS	DOMESTIC FOR FEED 1000 MET TONS	CONSUMP-TION TOTAL 1000 MET TONS	CONS LOG ESTS	NET IMPORTS 1000 MET TONS	NET IMPS LOG ESTS
1961	116164	162792		561	35858	112834	141832		-35297	
1962	101827	161456		286	33666	109294	138508		-33380	
1963	91395	173777		399	41142	106315	136598		-40743	
1964	87831	159860		427	40363	105351	135254		-39936	
1965	76707	182520		353	50017	120103	151112		-49664	
1966	58451	183242		298	42561	118249	149666		-42263	
1967	49764	206913		310	43074	118921	150946		-42764	
1968	62967	201095		335	32546	126978	159501		-32211	
1969	72350	203948		441	36857	133963	166469		-36416	
1970	73413	185685		438	39935	132096	164454		-39497	
1971	55147	236423		406	42284	143141	175921		-41878	
1972	73771	226922		486	70917	147772	182114		-70431	
1973	48148	236371		310	75396	142955	178081		-75086	
1974	31352	203068		576	65851	106473	141594		-65275	
1975	27551	247422		491	83699	116667	155104		-83208	
1976	36661	256623		434	78564	115317	153539		-78130	
1977	61615	264535		361	89147	124473	162942		-88786	
1978	74422	274748		291	95130	141673	181704		-94839	
1979	72627	301172		359	111500	141976	184541		-111141	
1980	78117	267945		313	117776	134828	180455		-117463	
FORE-CASTS										
1981		287170	294799				180946	181620	-104243	-110388
1982		293870	304069				182987	183969	-108369	-117820
1983		300569	313630				185028	186349	-112495	-125753
1984		307269	323491				187069	188759	-116622	-134220
1985		313968	333662				189110	191200	-120748	-143257
RSOR X1000		883	893				527	531	805	807
N:		20	20				20	20	20	20

COUNTRY.REPORT
SAMPLE RUN

INTERACTIVE MODE: SPEAKEASY DATA SET OUTPUT

```
READY
exec °ers75.er3rm.country.report.clist°
**** THANK YOU ERS75 FOR USING THE "COUNTRY REPORT" PROGRAM ****

     IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS
     SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.

     DO YOU WISH THIS TO BE A BATCH RUN? (Y OR N):n

*****************************************************************

     AFTER ENTERING OASIS, YOU MUST TYPE
     THE FOLLOWING LINE:

          SIZE(200)

     YOU WILL THEN BE ASKED FOR YOUR ERSID (ERS75) AND
     YOUR TERMINAL TYPE.  AFTERWARDS, TYPE THE FOLLOWING LINE:

         GET COREPORT ON REPORT;COREPORT

DO YOU WANT INFO (JUNE 6, 1980) ON OASIS  ?n

ENTER THE REMOTE PRINTER NUMBER (NN) IF JOURNAL
IS TO BE USED, OTHERWISE HIT CARRIAGE RETURN  †
TIME-09:22:11 AM. CPU-00:00:01 SERVICE-2228 SESSION-00:01:57 APRIL 7,1981


PLEASE BE PATIENT - IT SOMETIMES TAKES A FEW
SECONDS TO ALLOCATE FILES.


WELCOME TO  OASIS  -  THE USDA-ESCS OUTLOOK AND SITUATION INFORMATION SYST

*****************************************************************************
*** NOTICE TO OASIS USERS 4/6/81 ***

1980 ANNUAL LIVESTOCK AND MACRO DATA ARE NOW AVAILABLE IN LGF=OSSA.


  TELENET USERS, PLEASE REPORT ANY PROBLEMS (EG. LINE DROPS) TO THE
  TELENET SERVICE CENTER 800-336-0437.

   FOR FURTHER HELP CONTACT ED OVERTON OR FLETCHER MARTIN AT 202-447-8862.

TSO SPEAKEASY III NU+  9:29 AM APRIL 7, 1981
:_size(200)
ENTER YOUR ERSID BELOW:
ers75
ENTER YOUR TERMINAL TYPE BELOW:
aj832
:_get coreport on report;coreport
*****************************************************************

TO USE THIS PROGRAM, THE OPERATOR MUST KNOW THE
IFS COUNTRY CODES FOR THE COUNTRIES DESIRED.

A SUMMARY OF THE CODES IS AVAILABLE ON THE INSIDE COVER
OF °INTERNATIONAL FINANCIAL STATISTICS° OR BELOW.

*****************************************************************

IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS
SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.
```

```
************************************************************

TO INSURE THAT PRINTOUT IS READABLE, PLEASE ENTER MINI (80-155 CHARS/LINE)
OR STANDARD (155 CHARS/LINE) TERMINAL (M OR S):     s
DO YOU WISH TO SEE A LIST OF THE COUNTRIES AND THE
IFS CODES WHICH ARE AVAILABLE?(Y OR N):     n

************************************************************
PLEASE CHOOSE ONE OF THE FOLLOWING OPTIONS FOR OUTPUT:

** HISTORIC DATA ** THIS IS THE DEFAULT ** ENTER °HIST°  **
**            MACROECONOMIC AND GRAIN DATA                **

** FORECAST DATA **  TABLES AND GRAPHS  ** ENTER °FORE°  **
**    PRODUCTION,CONSUMPTION, AND NET IMPORTS ONLY        **
** SIMPLE LINEAR AND DOUBLE-LOG PROJECTIONS FOR 5 YEARS  **

**   BOTH HISTORIC AND FORECAST DATA    ** ENTER °BOTH°  **

** TO SAVE VARIABLES (ONE COUNTRY ONLY) ** ENTER °SAVE°  **
**      RETURNS HISTORIC VARIABLES FOR OPERATOR USE       **

************************************************************
PLEASE ENTER ONE OF THE ABOVE OPTIONS:     save

AN ID AND A PASSWORD ARE REQUIRED TO ACCESS GRAIN DATA
THESE MAY BE OBTAINED FROM ED OVERTON

ENTER THE ID NUMBER FOR GRAIN DATA; °QUIT° TO
END THIS SESSION; OR (RETURN) FOR
MACROECONOMIC DATA ONLY:                    [redacted]
ENTER PASSWORD:                [redacted]

ENTER A COUNTRY/REGION NAME:     australia

ENTER 3 DIGIT IFS CODE FOR THIS COUNTRY:    193

AUSTRALIA                        193

IS THIS CORRECT? (Y OR N)  y

USING D2IOR VERSION 08-01-79, 1100  (V3.01)
USING DATA FILE OF 03/26/81 AT 230247


** RECORD NOT FOUND **


WARNING--


IP ACTUALLY AVAILABLE IS  1969001   AND THE AVAILABLE LP IS  1980001

** RECORD NOT FOUND **
```

YEAR	IMPORTS	EXPORTS	CURACCT	RESERVES	INDPROD	YEAR	IMPORTS	EXPORTS	CURACCT	RESERVES	INDPROD
	MILLIONS OF US$	MILLIONS OF US$		SDR SDR			MILLIONS OF US$	MILLIONS OF US$		SDR SDR	
1961	-1996	2352		1158		1971	-4451	5053		3054	
1962	-2179	2370		1168		1972	-4295	6399		5656	
1963	-2341	2789		1634		1973	-6457	9235		4723	
1964	-2819	3018		1680		1974	-10641	10739		3487	
1965	-3276	2937		1317		1975	-9482	11722		2782	
1966	-2982	3084		1568		1976	-10948	12995		2728	
1967	-3340	3374		1364		1977	-12190	13169		1962	
1968	-3690	3466		1442		1978	-14016	14081		1856	
1969	-3747	4031		1261		1979	-16208	18601		1359	
1970	-4101	4599		1693		1980	0	0		1603	

EXRATE1	EXRATE2	CPI	WPI	PCE	GDP	GNP	POP
AUSTRALI AN DOLLA	AUSTRALI AN DOLLA	INDEX NU MBER	INDEX NU MBER	AUSTRALI AN DOLLA	AUSTRALI AN DOLLA	AUSTRALI AN DOLLA	MILLIONS
.89246	1.1205	49.4	0	9.63	14.52	14.33	10.55
.89405	1.1185	49.2	0	10.26	15.6	15.41	10.74
.89606	1.116	49.5	0	11.03	17.08	16.87	10.95
.89767	1.114	50.6	0	11.91	18.76	18.56	11.17
.89405	1.1185	52.7	0	12.78	20.31	20.07	11.39
.89767	1.114	54.2	0	13.63	21.55	21.31	11.6
.89206	1.121	56	0	14.84	23.64	23.34	11.8
.9009	1.11	57.4	0	16.1	25.87	25.53	12.01
.89445	1.118	59.1	60.5	17.66	28.78	28.41	12.26
.89686	1.115	61.4	63.2	19.43	31.84	31.36	12.51
.83963	1.191	65.1	66.2	21.57	35.79	35.32	12.94
.78431	1.275	69	69.4	23.9	39.91	39.48	13.18
.67204	1.488	75.5	75.4	27.62	47.05	46.57	13.38
.75358	1.327	86.9	86.9	33.06	56.57	56.12	13.6
.79548	1.2571	100	100	39.99	67.07	66.38	13.77
.92047	1.0864	113.5	111.4	46.79	78.69	77.79	13.92
.87612	1.1414	127.5	122.7	52.19	86.69	85.66	14.07
.86919	1.1505	137.6	132.7	58.32	95.05	93.86	14.25
.90457	1.1055	150.1	152.4	65.24	108.06	106.55	14.42
.84696	1.1807	165.4	0	0	0	0	0

CURACCT = BALANCE ON CURRENT ACCOUNT
RESERVES = INTERNATIONAL RESERVES
EXRATE1 = EXCHANGE RATE, LOCAL CURRENCY/$, END OF PERIOD
EXRATE2 = EXCHANGE RATE, $/LOCAL CURRENCY, END OF PERIOD
PCE = PRIVATE CONSUMPTION
INDPROD = INDUSTRIAL PRODUCTION
POP = POPULATION

DATA SOURCE: INTERNATIONAL FINANCIAL STATISTICS, IMF

OK

OK

OK

** WHEAT DATA AVAILABLE **

YEAR	WHAHARV	WHYIELD	WHBSTOCK	WHPROD	WHIMPORT	WHEXPORT	YEAR	WHAHARV	WHYIELD	WHBSTOCK	WHPROD	WHIMPORT	WHEXPORT
1961	5958	1.129	989	6727	0	4950	1971	7138	1.206	3665	8606	0	7788
1962	6665	1.253	807	8353	0	6148	1972	7604	.867	1584	6590	0	4281
1963	6668	1.338	959	8925	0	6986	1973	8948	1.34	565	11987	0	7031
1964	7252	1.384	880	10037	0	7321	1974	8308	1.367	1982	11357	0	8562
1965	7088	.997	989	7067	0	4691	1975	8555	1.401	1658	11982	0	8663
1966	8427	1.507	774	12699	0	8497	1976	8959	1.302	2670	11667	0	9485
1967	9082	.831	2516	7547	0	5654	1977	9955	.941	2071	9370	0	8422
1968	10846	1.365	1737	14804	0	6371	1978	10189	1.775	816	18090	0	11692
1969	9486	1.112	7586	10546	0	8047	1979	11159	1.444	4629	16117	0	13200
1970	6479	1.218	7545	7890	0	9145	1980	11475	.959	4466	11000	0	11100

YEAR	WHDFEED	WHCONS	WHFYUS	WHFYIMP	WHFYEXP	YEAR	WHDFEED	WHCONS	WHFYUS	WHFYIMP	WHFYEXP
1961	474	1959	0	-6253	6253	1971	822	2899	0	-8670	8670
1962	405	2053	0	-4791	4791	1972	1239	3328	0	-5614	5614
1963	419	2018	0	-7762	7762	1973	1226	3539	0	-5432	5432
1964	944	2607	0	-6435	6435	1974	1000	3119	0	-8307	8307
1965	721	2591	0	-5650	5650	1975	323	2307	0	-7921	7921
1966	601	2460	0	-6926	6926	1976	745	2781	0	-8515	8515
1967	762	2672	0	-7044	7044	1977	470	2203	0	-11081	11081
1968	449	2584	0	-5380	5380	1978	680	2585	0	-6700	6700
1969	740	2540	0	-7374	7374	1979	900	3080	0	-14900	14900
1970	653	2625	0	-9516	9516	1980	800	2900	0	-11000	11000

** RICE DATA AVAILABLE **

YEAR	RIAHARV	RIYIELD	RIBSTOCK	RIPROD	RIIMPORT	RIEXPORT	YEAR	RIAHARV	RIYIELD	RIBSTOCK	RIPROD	RIIMPORT	RIEXPORT
1961	20	4.8	32	96	1	57	1971	41	4.317	59	177	0	150
1962	22	4.409	36	97	1	56	1972	45	4.911	19	221	0	154
1963	24	4.25	41	102	1	64	1973	68	4.309	6	293	0	163
1964	25	4.36	45	109	1	64	1974	76	3.645	44	277	0	196
1965	26	5	55	130	2	89	1975	75	3.973	88	298	1	297
1966	30	5.1	58	153	2	99	1976	92	4.12	35	379	1	256
1967	31	5.097	69	158	2	107	1977	91	3.857	103	351	1	253
1968	34	5.382	68	183	2	121	1978	109	4.541	144	495	1	426
1969	40	4.425	72	177	0	96	1979	115	3.783	154	435	1	450
1970	38	5.632	88	214	0	171	1980	105	4.181	80	439	0	425

YEAR	RIDFEED	RICONS	RIFYUS	RIFYIMP	RIFYEXP	YEAR	RIDFEED	RICONS	RIFYUS	RIFYIMP	RIFYEXP
1961	0	36	1	-37	38	1971	0	67	0	-143	143
1962	0	37	1	-57	58	1972	0	80	0	-158	158
1963	0	35	1	-56	57	1973	0	92	0	-144	145
1964	0	36	1	-64	65	1974	0	37	0	-185	185
1965	0	40	2	-62	64	1975	0	55	1	-217	218
1966	0	45	2	-97	99	1976	0	56	1	-259	260
1967	0	54	2	-95	97	1977	0	58	1	-336	337
1968	0	60	2	-122	124	1978	0	60	0	-399	400
1969	0	65	1	-110	111	1979	0	60	0	-449	450
1970	0	72	0	-165	165	1980	0	60	0	-420	420

** COARSE GRAIN DATA AVAILABLE **

YEAR	CGAHARV	CGYIELD	CGBSTOCK	CGPROD	CGIMPORT	CGEXPORT	YEAR	CGAHARV	CGYIELD	CGBSTOCK	CGPROD	CGIMPORT	CGEXPORT
1961	2509	.969	35	2430	0	776	1971	4562	1.278	1617	5830	1	2780
1962	2452	1.086	40	2662	0	616	1972	3946	.926	1060	3655	3	1372
1963	2473	1.069	40	2644	0	608	1973	3742	1.263	510	4728	2	2485
1964	2527	1.107	35	2797	2	658	1974	3323	1.34	630	4453	3	2867
1965	2761	.871	35	2404	1	729	1975	3909	1.435	512	5609	6	3675
1966	3080	1.265	20	3897	7	702	1976	3951	1.278	697	5051	6	2741
1967	2749	.747	540	2053	17	460	1977	4377	.971	790	4252	22	1583
1968	3249	1.182	367	3841	34	938	1978	4706	1.508	758	7099	9	3244
1969	3417	1.09	1272	3725	12	1208	1979	4237	1.498	1466	6345	3	3937
1970	4281	1.29	1384	5524	1	2916	1980	4469	1.174	745	5247	0	2343

YEAR	CGDFEED	CGCONS	CGFYUS	CGFYIMP	CGFYEXP	YEAR	CGDFEED	CGCONS	CGFYUS	CGFYIMP	CGFYEXP
1961	1016	1649	0	-1105	1105	1971	2680	3608	0	-3203	3204
1962	1308	2046	0	-622	622	1972	2384	2842	0	-1636	1639
1963	1254	2041	0	-719	719	1973	1683	2125	1	-1933	1935
1964	1311	2141	0	-750	750	1974	1261	1707	1	-3205	3208
1965	1021	1691	4	-483	485	1975	1247	1755	1	-3165	3167
1966	1716	2682	0	-854	872	1976	1701	2223	0	-3279	3285
1967	1073	1783	0	-358	367	1977	1996	2723	0	-1937	1961
1968	1202	2035	0	-814	857	1978	2240	3156	0	-2594	2603
1969	1456	2417	0	-904	905	1979	2205	3133	0	-4112	4115
1970	1588	2376	0	-2218	2218	1980	2046	3083	0	-2375	2375

** TOTAL CREAL DATA AVAILABLE **

YEAR	TCAHARV	TCYIELD	TCBSTOCK	TCPROD	TCIMPORT	TCEXPORT	YEAR	TCAHARV	TCYIELD	TCBSTOCK	TCPROD	TCIMPORT	TCEXPORT
1961	8487	1.09	1056	9253	1	5783	1971	11741	1.245	5341	14613	1	10718
1962	9139	1.216	883	11112	1	6820	1972	11595	.9026	2663	10466	3	5807
1963	9165	1.273	1040	11671	1	7658	1973	12758	1.333	1081	17008	2	9679
1964	9804	1.32	960	12943	3	8043	1974	11707	1.374	2656	16087	3	11625
1965	9875	.9723	1079	9601	3	5509	1975	12539	1.427	2258	17889	7	12635
1966	11537	1.452	852	16749	9	9298	1976	13002	1.315	3402	17097	7	12482
1967	11862	.8226	3125	9758	19	6221	1977	14423	.9688	2964	13973	23	10258
1968	14129	1.333	2172	18828	36	7430	1978	15004	1.712	1718	25684	10	15362
1969	12943	1.116	8930	14448	12	9351	1979	15511	1.476	6249	22897	4	17587
1970	10798	1.262	9017	13628	1	12232	1980	16049	1.04	5291	16686	0	13868

YEAR	TCDFEED	TCCONS	TCFYUS	TCFYIMP	TCFYEXP	YEAR	TCDFEED	TCCONS	TCFYUS	TCFYIMP	TCFYEXP
1961	1490	3644	1	-7395	7396	1971	3502	6574	0	-12016	12017
1962	1713	4136	1	-5470	5471	1972	3623	6250	0	-7408	7411
1963	1673	4094	1	-8537	8538	1973	2909	5756	1	-7509	7512
1964	2255	4784	1	-7249	7250	1974	2261	4863	1	-11697	11700
1965	1742	4322	6	-6195	6199	1975	1570	4117	2	-11303	11306
1966	2317	5187	2	-7877	7897	1976	2446	5060	1	-12053	12060
1967	1835	4509	2	-7497	7508	1977	2466	4984	1	-13354	13379
1968	1651	4679	2	-6316	6361	1978	2920	5801	0	-9693	9703
1969	2196	5022	1	-8388	8390	1979	3105	6273	0	-19461	19465
1970	2241	5073	0	-11899	11899	1980	2846	6043	0	-13795	13795

AHARV = AREA HARVEST (1000 HECT)
YIELD = YIELD (MET TONS/HECT)
BSTOCK = BEGINNING STOCKS
PROD = PRODUCTION
DFEED = DOMESTIC FEED USE
CONS = DOMESTIC CONSUMPTION
FYUS = FISCAL YEAR (JULY-JUNE) IMPORTS FROM U.S.
FYIMP = FISCAL YEAR IMPORTS (TOTAL)
FYEXP = FISCAL YEAR EXPORTS

** UNITS = 1000 METRIC TONS UNLESS OTHERWISE INDICATED **

** ALL VARIABLES ARE NOW DEFINED AS ONE-DIMENSIONAL **
** ARRAYS. PLEASE NOTE THAT SOME VARIABLES MAY NOT **
** HAVE DATA FOR ALL YEARS. MISSING DATA ARE STORED **
** AS 0'S AND MAY AFFECT CALCULATIONS UNLESS THE **
** ELEMENTS ARE ESTIMATED OR THE ARRAYS ARE SHORTENED **

COUNTRY.REPORT
SAMPLE RUN

INTERACTIVE MODE: FORECAST OUTPUT

NOTE: In the batch mode, the system design causes all graphs to be printed before any other output. They are printed out sequentially and can be easily matched to the proper headings.

```
exec er3rm.country.report.clist
**** THANK YOU ERS75 FOR USING THE "COUNTRY REPORT" PROGRAM ****

     IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS
     SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.

     DO YOU WISH THIS TO BE A BATCH RUN? (Y OR N):n

*****************************************************************

     AFTER ENTERING OASIS, YOU MUST TYPE
     THE FOLLOWING LINE:

          SIZE(200)

     YOU WILL THEN BE ASKED FOR YOUR ERSID (ERS75) AND
     YOUR TERMINAL TYPE.  AFTERWARDS, TYPE THE FOLLOWING LINE:

         GET COREPORT ON REPORT;COREPORT

DO YOU WANT INFO (JUNE 6, 1980) ON OASIS  ?n

ENTER THE REMOTE PRINTER NUMBER (NN) IF JOURNAL
IS TO BE USED, OTHERWISE HIT CARRIAGE RETURN  †
TIME-10:11:15 AM. CPU-00:00:27 SERVICE-59674 SESSION-00:33:48 APRIL 2,1981


PLEASE BE PATIENT - IT SOMETIMES TAKES A FEW
SECONDS TO ALLOCATE FILES.

WELCOME TO  OASIS  -  THE USDA-ESCS OUTLOOK AND SITUATION INFORMATION SYSTEM

*****************************************************************************
*** NOTICE TO OASIS USERS 3/4/81 ***

FOURTH QUARTER 1980 DATA IS NOW AVAILABLE IN LOGICAL GROUP OSSQ.

 OASIS PASSWORDS WILL BE CHANGED ON FRIDAY, MARCH 13TH.

   FIVE YEAR REVISIONS HAVE BEEN COMPLETED FOR FEED GRAINS AND WHEAT.
   REVISIONS BACK TO 1968 HAVE BEEN COMPLETED FOR THE GENERAL ECONOMIC
   INDICATORS (NATIONAL ACCOUNTS).

  TELENET USERS, PLEASE REPORT ANY PROPLEMS (EG. LINE DROPS) TO THE
  TELENET SERVICE CENTER 800-336-0437.

   FOR FURTHER HELP CONTACT ED OVERTON OR FLETCHER MARTIN AT 202-447-8862.

TSO SPEAKEASY III NU+ 10:13 AM APRIL 2, 1981
:_size(200)
ENTER YOUR ERSID BELOW:
ers75
ENTER YOUR TERMINAL TYPE BELOW:
aj832
:_get coreport on report;coreport
*************************************************************

TO USE THIS PROGRAM, THE OPERATOR MUST KNOW THE
IFS COUNTRY CODES FOR THE COUNTRIES DESIRED.

A SUMMARY OF THE CODES IS AVAILABLE ON THE INSIDE COVER
OF °INTERNATIONAL FINANCIAL STATISTICS° OR BELOW.

*************************************************************
```

```
IF MORE THAN 10 COUNTRIES ARE BEING PRINTED, IT IS
SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.

**********************************************************

TO INSURE THAT PRINTOUT IS READABLE, PLEASE ENTER MINI (80-155 CHARS/LINE)
OR STANDARD (155 CHARS/LINE) TERMINAL (M OR S):     s
DO YOU WISH TO SEE A LIST OF THE COUNTRIES AND THE
IFS CODES WHICH ARE AVAILABLE?(Y OR N):     y

SUMMARY OF THE REGIONS AVAILABLE:

REGION NUMBER           REGION
*******************************************
       1        MISCELLANEOUS
       2        INDUSTRIAL COUNTRIES & EUROPE
       3        AUSTRALIA,NZ,SOUTH AFRICA
       4        CENTRALLY PLANNED
       5        OIL EXPORTING
       6        OCEANIA
       7        NORTH AFRICA & MIDDLE EAST
       8        AFRICA
       9        OTHER WESTERN HEMISPHERE
      10        ASIA


ENTER A REGION NUMBER:     3


   IFS              COUNTRY/                OASIS
  CODES              REGION                 CODES


 ........  ..................................  ........
   190      AUSTRALIA, NZ, S.AFRICA
   193      AUSTRALIA                          AU
   196      NEW ZEALAND                        NZ
   199      SOUTH AFRICA                       ZA


DO YOU WISH TO SEE AN ADDITIONAL REGION? (Y OR N):     n

***** NOTE *****
THE OASIS CODES ARE ONLY PRINTED FOR REFERENCE, AND ARE
NOT NECESSARY TO RUN THE PROGRAM.  IF NO OASIS CODE IS
PRINTED FOR A COUNTRY, GRAIN DATA IS NOT AVAILABLE.

IF THE IFS CODE CONTAINS ANY ALPHABETIC CHARACTERS, NO
MACROECONOMIC DATA IS AVAILABLE.
***************
```

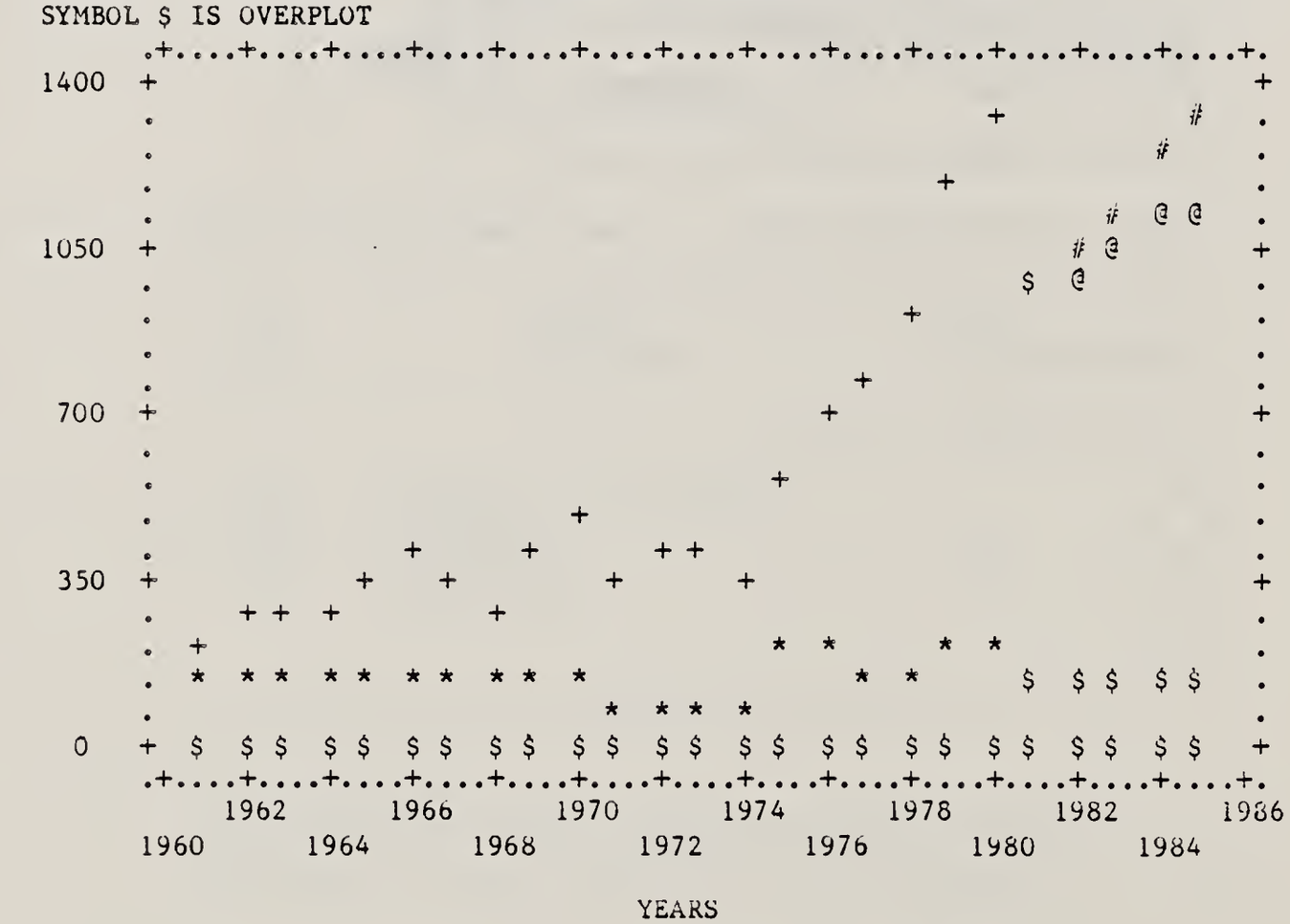
```
**********************************************************
PLEASE CHOOSE ONE OF THE FOLLOWING OPTIONS FOR OUTPUT:

** HISTORIC DATA ** THIS IS THE DEFAULT ** ENTER °HIST°  **
**            MACROECONOMIC AND GRAIN DATA                **

** FORECAST DATA **  TABLES AND GRAPHS  ** ENTER °FORE°  **
**    PRODUCTION,CONSUMPTION, AND NET IMPORTS ONLY       **
** SIMPLE LINEAR AND DOUBLE-LOG PROJECTIONS FOR 5 YEARS  **

**   BOTH HISTORIC AND FORECAST DATA    ** ENTER °BOTH°  **

** TO SAVE VARIABLES (ONE COUNTRY ONLY) ** ENTER °SAVE°  **
**      RETURNS HISTORIC VARIABLES FOR OPERATOR USE      **

**********************************************************
PLEASE ENTER ONE OF THE ABOVE OPTIONS:     fore

AN ID AND A PASSWORD ARE REQUIRED TO ACCESS GRAIN DATA
THESE MAY BE OBTAINED FROM ED OVERTON

ENTER THE ID NUMBER FOR GRAIN DATA; °QUIT° TO
END THIS SESSION; OR (RETURN) FOR
MACROECONOMIC DATA ONLY:                    [redacted]
ENTER PASSWORD:                [redacted]

HOW MANY COUNTRIES DO YOU WISH TO ENTER?     1

ENTER A COUNTRY/REGION NAME:     saudi arabia

ENTER 3 DIGIT IFS CODE FOR THIS COUNTRY:      456

SAUDI ARABIA                    456

IS THIS CORRECT? (Y OR N)  y

OK

OK

OK
```

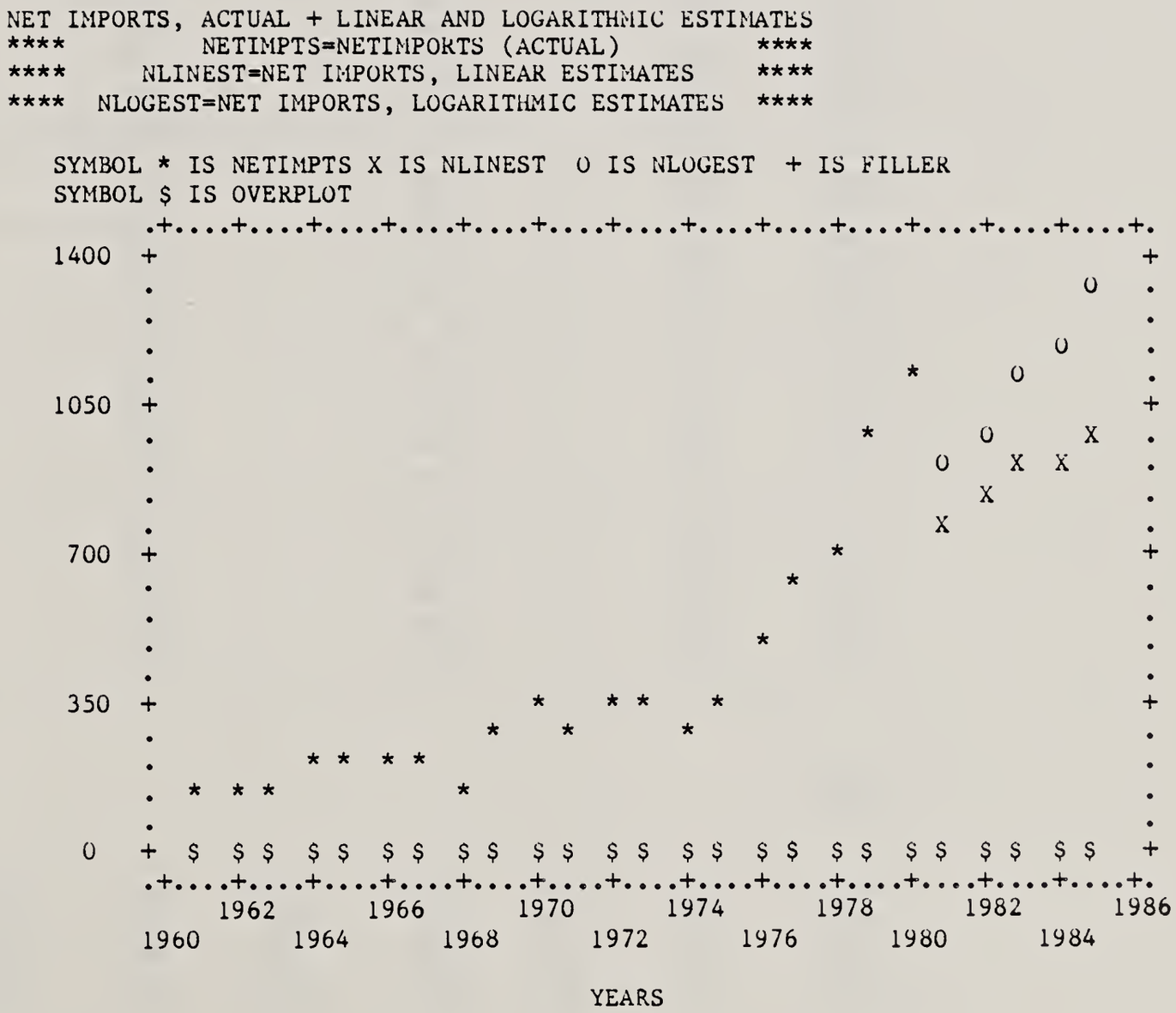
**** NOTE **
POINTS PLOTTED AT °0° ARE CREATED BY THE PROGRAM
PLEASE DISREGARD

********** SAUDI ARABIA WHEAT **********

PRODUCTION AND CONSUMPTION, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** PRODCTN=PRODUCTION (ACTUAL) CNSMPTN=CONSUMPTION (ACTUAL) ****
**** PLINEST,CLINEST=PRODUCTION AND CONSUMPTION LINEAR ESTIMATES ****
**** PLOGEST,CLOGEST=PRODUCTION AND CONSUMPTION LOGARITHMIC ESTS ****

SYMBOL * IS PRODCTN X IS PLINEST 0 IS PLOGEST + IS CNSMPTN @ IS CLINEST # IS CLOGE
SYMBOL $ IS OVERPLOT




NET IMPORTS, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES
**** NETIMPTS=NETIMPORTS (ACTUAL) ****
**** NLINEST=NET IMPORTS, LINEAR ESTIMATES ****
**** NLOGEST=NET IMPORTS, LOGARITHMIC ESTIMATES ****
SYMBOL * IS NETIMPTS X IS NLINEST O IS NLOGEST + IS FILLER
SYMBOL $ IS OVERPLOT
1400
1050
700
350
0
1960
1962
1964
1966
1968
1970
1972
1974
1976
1978
1980
1982
1984
1986
YEARS

SAUDI ARABIA — SUPPLY AND UTILIZATION OF WHEAT

	PRODUCTION 1000 MET TONS	PROD LOGESTS	CONSUMPTION TOTAL 1000 MET TONS	CONS LOGESTS	NET IMPORTS 1000 MET TONS	NET IMPS LOGESTS
1961	127		238		111	
1962	135		293		158	
1963	135		282		147	
1964	125		315		190	
1965	148		348		200	
1966	149		389		240	
1967	150		332		182	
1968	130		270		140	
1969	150		440		290	
1970	135		498		363	
1971	72		366		294	
1972	39		386		347	
1973	63		446		383	
1974	90		354		264	
1975	193		546		353	
1976	205		710		505	
1977	150		770		620	
1978	175		900		725	
1979	200		1200		1000	
1980	200		1300		1100	
FORECASTS						
1981	165	146	968	993	804	899
1982	167	148	1011	1069	844	996
1983	169	150	1054	1151	885	1103
1984	172	151	1097	1239	925	1222
1985	174	153	1140	1334	965	1353
RSQR X1000	102	27	688	790	727	865
N:	20	20	20	20	20	20

DATA SOURCE: FAS DATABASE
April 3, 1981

(Rice, coarse grain, total cereal data not reproduced.)

DO YOU WISH TO CONTINUE? (Y OR N): n

 SPACE USED 41 K NOW, 72 K PEAK, SIZE 400 K
READY
logoff

COUNTRY.REPORT PROGRAMS

The following section contains brief descriptions of the functions of the various programs. Included with each is a list of the variables which must be defined before the program can be executed. Each program also defines or resets certain variables for use by subprograms or calling programs. These variables are also explained.

The following program requires quarterly updates:

MACRO

The following programs require yearly updates:

COREPORT
FORECAST
GRAINS
GRAINSAV
MACRO
MACROSAV

COUNTRY.REPORT
Program files in ERS75.ER3RM

ALLPROGS	- A SPEAKEASY namelist containing the following programs: GETCODE, GRAINS, MACRO, and TABLES.
BATCHPGM.CLIST	- A TSO prompting program to initiate batch execution.
BATCHRPT	- A batch version of the COREPORT program.
COREPORT	- The master program. It generates the prompting questions, defines variables, and calls the appropriate programs as needed.
COUNTRY.REPORT.CLIST	- A TSO program that allocates files and calls BATCHGM.CLIST for batch processing or the OASIS software for interactive use.
FORECAST	- A program which creates forecasts and graphs for selected grain data.
GETCODE	- A program that finds the OSF country code which corresponds to the IFS country code entered.
GRAINS	- A program that sets the appropriate TDAM parameters for OSFDATA and creates wheat, rice coarse grain, and total cereals supply/utilization tables.
GRAINSAV	- A program that sets the appropriate TDAM parameters for OSFDATA and creates one-dimensional SPEAKEASY arrays for wheat, rice coarse grain, and total cereals supply/utilization variables.
IFSDATA	- A program which gets the selected IFS variables from TDAM.
MACRO	- A program that sets the appropriate TDAM parameters for IFDATA and creates tables of selected annual and quarterly IFS variables.
MACROSAV	- A program that sets the appropriate TDAM parameters for IFSDATA and creates one-dimensional SPEAKEASY arrays for selected IFS variables.
NAMEFIND	- A program that takes user-entered IFS or OSF codes and finds their corresponding country names and OSF/IFS codes to create a SPEAKEASY CHECKPOINT file.
OSFDATA	- A program that gets the OSF variables from TDAM.
REGION1 through REGION10	- Data files containig coresponding IFS codes, country names, and FAS (in the "OSF" logical group) country codes.
TABLES	- A program to generate, if required, country IFS codes and matching names.

BATCHPGM.CLIST

A TSO prompting program which creates JCL for batch processing, and provides an option for creating a CHECKPOINT file of IFS codes and country names.

```
00010 /* MARCH 17, 1981 VERSION */
00020 /* ERS75.ER3RM.BATCHPGM.CLIST */
00030 CONTROL PROMPT END(ENDO) NOFLUSH MSG NOSYMLIST NOCONLIST
00040 SET PRTY=
00050 SET ACCOUNT=
00060 SET ROUTE=
00070
00080 STRTBTCH: WRITE
00090          ERROR DO
00100                 WRITE SYSTEM ERROR. PLEASE SAVE YOU OUTPUT AND CONTACT
00110                 WRITE BILL KOST AT X78470
00120                 WRITE SYSPCMD=&SYSPCMD    SYSSCMD=&SYSSCMD
00130                 WRITE        LASTCC=&LASTCC
00140                 SET COMMAND=
00150                 WRITE &COMMAND
00160                 RETURN
00170                 ENDO
00180          ATTN DO
00190                SET COMMAND=
00200                WRITE &COMMAND
00210                WRITE DO YOU WISH TO CONTINUE? (Y OR N):
00220                READ ANS
00230                IF &ANS EQ N OR &ANS EQ NO THEN GOTO FINISH
00240                RETURN
00250                ENDO
00260
00270          WRITE DO YOU HAVE A SPEAKEASY CHECKPOINT CONTAINING A LIST OF
00280          WRITE COUNTRIES, COUNTRY CODES, AND THE NUMBER OF COUNTRIES? +
00290                (Y OR N):
00300                READ ANS
00310                IF &ANS EQ Y OR &ANS EQ YES THEN GOTO OPTION
00320          WRITE
00330          WRITE DO YOU WISH TO CREATE A CHECKPOINT FILE? (Y OR N):
00340                  READ ANS
00350                  IF &ANS NE Y AND &ANS NE YES THEN GOTO FINISH
00360          WRITE
00370          WRITE TO DO SO IS QUITE EASY.  SIMPLY ENTER UP TO 50 IFS OR
00380          WRITE OASIS COUNTRY CODES, AND THE PROGRAM WILL DO THE REST.
00390          WRITE
00400
00410 SAVLIST: SET N=
00420          SET CODE=
00430          WRITE BEGIN -- ENTER ONE OASIS OR IFS CODE PER LINE (THEY MAY BE
00440          WRITE ENTERED INTERCHANGEABLY) -- TYPE STOP TO END:
00450          WRITE
00460
00470 CODELOOP:SET M=0
00480             SET TEMPSTR=
00490          DO WHILE &M LE 9
00500             WRITENR :*
00510
00520          TRYAGAIN:READ STRING
00530                  IF &STRING EQ STOP THEN -
00540                     DO
00550                       IF &M EQ 0 AND &N EQ 0 THEN GOTO FINISH
00560                                    ELSE GOTO ENDLOOP
00570                       ENDO
00580                    IF &LENGTH(&STR(&STRING)) NE 2 AND -
00590                       &LENGTH(&STR(&STRING)) NE 3 THEN-
00600                       DO
```

```
00610                         WRITE IMPROPER LENGTH -- REENTER:
00620                         GOTO TRYAGAIN
00630                       ENDO
00640
00650                     IF &LENGTH(&STR(&STRING)) EQ 2 THEN -
00660                     SET STRING=&STR(&STRING)&STR( )
00670                     SET M=&M+1
00680                     SET TEMPSTR=&STR(&TEMPSTR)&STR(&STRING)
00690          ENDO
00700          SET M=10
00710 ENDLOOP: SET Q=1
00720          DO WHILE &Q LT &M*3
00730             WRITENR &SUBSTR(&Q:&Q+2,&TEMPSTR)&STR( )
00740             SET Q=&Q+3
00750          ENDO
00760          WRITE
00770          WRITE
00780          WRITENR ARE THESE CODES CORRECT
00790          IF &M EQ 10 AND &N LT 40 THEN WRITENR  SO FAR
00800          WRITE ? (Y OR N):
00810                READ &ANS
00820                IF &ANS NE Y AND &ANS NE YES THEN -
00830                   DO
00840                     WRITE PLEASE REENTER THE ABOVE &M CODES:
00850                     GOTO CODELOOP
00860                   ENDO
00870                   ELSE DO
00880                          SET CODE=&STR(&CODE)&STR(&TEMPSTR)
00890                          SET N=&N+&M
00900                        ENDO
00910
00920                  IF &N EQ 50 THEN GOTO SAVELIST
00930                  IF &STRING EQ STOP THEN GOTO SAVELIST
00940                  GOTO CODELOOP
00950
00960 SAVELIST: WRITE
00970          WRITE THIS LIST, ALONG WITH THE CORRESPONDING COUNTRY OR REGION
00980          WRITE NAMES, WILL BE SAVED IN A SPEAKEASY CHECKPOINT.
00990          WRITE
01000 CHECKSAV: WRITE PLEASE ENTER A NAME FOR THIS CHECKPOINT (LESS THAN 8 +
01010                 CHARS):
01020                READ CHKNAME
01030                IF &LENGTH(&STR(&CHKNAME)) GT 8 THEN GOTO CHECKSAV
01040                IF &CHKNAME EQ &STR() THEN GOTO CHECKSAV
01050          WRITE
01060          WRITE THIS LIST WILL BE SAVED AS "&SYSPREF..&CHKNAME..SPEKSAVE"
01070
01080     JCL: WRITE
01090          WRITE A COPY OF THE FILE WILL BE PRINTED IN BATCH SO PLEASE
01100  ROUTER: WRITE ENTER THE REMOTE TERMINAL DESIRED (RMT3 OR RMT13):
01110                READ ROUTE
01120                IF &ROUTE NE RMT3 AND &ROUTE NE RMT13 THEN GOTO ROUTER
01130          WRITE
01140
01150    JNAME: WRITE PLEASE ENTER A STANDARD BATCH JOBNAME FOR THIS
01160          WRITE PRINTOUT (EXACTLY 8 CHARACTERS):
01170            READ JOBN
01180            IF &LENGTH(&STR(&JOBN)) NE 8 THEN GOTO JNAME
01190          WRITE
01200
01210    ACCT: WRITE ENTER YOUR 10 DIGIT ACCOUNT NUMBER:
01220                READ ACCOUNT
01230                IF &LENGTH(&STR(&ACCOUNT)) NE 10 THEN GOTO ACCT
```

```
01240          WRITE
01250
01260    PRIOR: WRITE WHAT IS YOUR PRIORITY? (1 FOR WEEKEND, 3 FOR AVERAGE, +
01270                 13 FOR ASAP):
01280          WRITE *** NOTE THAT PRIORITY 13 COSTS 3 TIMES PRIORITY 3 ***
01290                 READ PRTY
01300          WRITE
01310          WRITE ************************************
01320          WRITE JOBNAME=&JOBN  ACCOUNT=&ACCOUNT
01330          WRITE           PRIORITY=&PRTY
01340          WRITE ************************************
01350          WRITE
01360          WRITE IS THIS CORRECT? (Y OR N):
01370                READ
01380                IF &SYSDVAL EQ N OR &SYSDVAL EQ NO THEN -
01390                   DO
01400                     WRITE PLEASE TRY AGAIN
01410                     GOTO ROUTER
01420                   ENDO
01430
01440
01450 WRITE
01460 EDIT °ERS75.ER3RM.DUMMY.BATCHJOB.CNTL(RUNBATCH)° CNTL NONUM
01470 VERIFY OFF
01480 TOP
01490 DEL *
01500 INSERT //&JOBN JOB (&ACCOUNT.,TS000),°SPEKLIST°,
01510 INSERT //          MSGLEVEL=1,PRTY=&PRTY.,NOTIFY=&SYSUID.,
01520 INSERT //          TIME=(0,20),CLASS=C
01530 INSERT ??ROUTE  PRINT &ROUTE
01540 INSERT //STEPN  EXEC ERSOASIS,REGION.OASIS=600K
01550 BOTTOM
01560 INSERT NOECHO
01570 INSERT ONERROR(NOMESSAGE NOTRACE CONTINUE)
01580 INSERT MARGINS(133)
01590 INSERT GET GETCODE ON REPORT
01600 INSERT N=&N
01610 INSERT KK=INTS(5,34)
01620 INSERT LL=INTS(1,3)
01630 INSERT $
01640 INSERT COUNTRY=ARRAY(N,3:"   ")
01650 INSERT NAME=ARRAY(N,30:"      ")
01660 INSERT CODEAR=ARRAY(N*3:"   ")
01670 INSERT CODEAR="&SUBSTR(1:&N,&CODE)"
01680 INSERT CODEAR=CODEAR,"&SUBSTR(&N+1:&N*2,&CODE)"
01690 INSERT CODEAR=CODEAR,"&SUBSTR(&N*2+1:&N*3,&CODE)"
01700 INSERT GET NAMEFIND ON REPORT
01710 INSERT NAMEFIND
01720 INSERT FREEIF IFSLOC I JJ GETCODE NAMEFIND AA III OSFLOC
01730 INSERT CHECKPOINT &CHKNAME
01740 INSERT NO=INTS(1 N)
01750 INSERT TABULATE NO COUNTRY NAME
01760 INSERT //OASIS.REPORT DD DSN=ERS75.ER3RM.OGSMRPT.DATA,
01770 INSERT //          DISP=SHR
01780 INSERT //OASIS.&CHKNAME. DD DSN=&SYSPREF..&CHKNAME..SPEKSAVE,
01790 INSERT //    DISP=(NEW,CATLG),
01800 INSERT //    DCB=(LRECL=80,BLKSIZE=6160,RECFM=FB),
01810 INSERT //    UNIT=3350,SPACE=(6160,(5,5),RLSE)
01820 INSERT ??
01830 INSERT //
01840 TOP
01850 CHANGE * 99999 °??° °/*° ALL
01860 UNNUM
01870 SUBMIT
```

```
01880 END NOSAVE
01890                                                                  61
01900
01910          WRITE
01920          WRITE YOU MAY NOW CONTINUE AND PRINT OUT THE DATA +
01930                FOR THESE COUNTRIES IF YOU WISH.
01940          WRITE TO DO SO, HIT THE RETURN KEY. TO QUIT, TYPE -- QUIT:
01950          WRITE
01960               READ ANS
01970               IF &ANS EQ QUIT THEN GOTO FINISH
01980
01990  OPTION: WRITE PLEASE CHOOSE ONE OF THE FOLLOWING OPTIONS FOR OUTPUT:
02000          WRITE
02010          WRITE ************************************************************
02020          WRITE
02030          WRITE ** HISTORIC DATA ** THIS IS THE DEFAULT ** ENTER °HIST°  **
02040          WRITE **            MACROECONOMIC AND GRAIN DATA                **
02050          WRITE
02060          WRITE ** FORECAST DATA **  TABLES AND GRAPHS  ** ENTER °FORE°  **
02070          WRITE **    PRODUCTION, CONSUMPTION, AND NET IMPORTS ONLY       **
02080          WRITE ** SIMPLE LINEAR AND DOUBLE-LOG PROJECTIONS FOR 5 YEARS  **
02090          WRITE
02100          WRITE **   BOTH HISTORIC AND FORECAST DATA    ** ENTER °BOTH°  **
02110          WRITE
02120          WRITE ************************************************************
02130          WRITE PLEASE ENTER ONE OF THE ABOVE OPTIONS:
02140          READ BRANCH
02150          WRITE
02160 BATCHRUN: WRITENR ENTER A
02170          IF &CHKNAME NE &STR() THEN WRITENR  NEW
02180          WRITE  STANDARD BATCH JOBNAME FOR THE BATCH
02190          WRITE PRINTOUT (EXACTLY 8 CHARACTERS):
02200            READ JOBNAME
02210            IF &LENGTH(&STR(&JOBNAME)) NE 8 THEN GOTO BATCHRUN
02220
02230    ACCNT: IF &ACCOUNT EQ &STR() THEN DO
02240          WRITE ENTER YOUR 10 DIGIT ACCOUNT NUMBER:
02250          READ ACCOUNT
02260          IF &LENGTH(&STR(&ACCOUNT)) NE 10 THEN GOTO ACCNT
02270          ENDO
02280
02290 ROUTING: IF &ROUTE EQ &STR() THEN DO
02300          WRITE ENTER THE REMOTE TERMINAL (RMT13 FOR ESCS OR RMT3 FOR FAS):
02310          READ ROUTE
02320          IF &ROUTE NE RMT13 AND &ROUTE NE RMT3 THEN GOTO ROUTING
02330          ENDO
02340
02350  XEROXX: WRITE IS THE OUTPUT TO BE ON XEROX? (Y OR N):
02360          READ XEROX
02370          IF &STR(&XEROX) EQ &STR() THEN GOTO XEROXX
02380          WRITE
02390          IF &XEROX EQ Y OR &XEROX EQ YES THEN -
02400             DO
02410                SET FORM=XERO
02420                WRITE YOU MUST GIVE THE OPERATOR A REQUEST FORM FOR +
02430                      XEROX PROCESSING.
02440                SET SYSOUT=D
02450             ENDO
02460             ELSE DO
02470                SET FORM=1431
02480                IF &ROUTE EQ RMT13 THEN SET SYSOUT=A
02490                ELSE SET SYSOUT=C
02500             ENDO
02510
```

```
02520 PRIORTY: WRITE WHAT IS YOUR PRIORITY? (1 FOR WEEKEND, 3 FOR AVERAGE, +
02530               13 FOR ASAP)
02540          WRITE *** NOTE THAT PRIORITY 13 COSTS 3 TIMES PRIORITY 3 ***
02550          READ PRTY
02560
02570  JCLASS: WRITE WHAT IS THE JOB CLASS? (USUALLY D FOR UP TO 10 COUNTRIES,
02580          WRITE OR F FOR BOTH HISTORIC AND FORECAST DATA, BUT SEE
02590          WRITE WCC HANDBOOK FOR OTHER CLASSES IF A LARGE NUMBER
02600          WRITE OF COUNTRIES IS BEING SUBMITTED):
02610          READ CLASS
02620             IF &CLASS EQ D THEN -
02630             DO
02640                SET MINUTES=2
02650                SET SECONDS=0
02660             ENDO
02670             ELSE DO
02680                WRITE ENTER THE MINUTES ALLOWED FOR CLASS &CLASS
02690                READ MINUTES
02700                WRITE ENTER THE SECONDS PERMITTED
02710                READ SECONDS
02720                ENDO
02730
02740          WRITE
02750          WRITE ************************************************
02760          WRITE JOBNAME=&JOBNAME ACCOUNT=&ACCOUNT ROUTE=&ROUTE
02770          WRITE     FORM=&FORM PRIORITY=&PRTY CLASS=&CLASS
02780          WRITE ************************************************
02790          WRITE
02800          WRITE IS THIS CORRECT? (Y OR N):
02810          READ
02820          IF &SYSDVAL EQ N OR &SYSDVAL EQ NO THEN -
02830          DO
02840             WRITE PLEASE TRY AGAIN
02850             GOTO BATCHRUN
02860          ENDO
02870
02880 WRITE AN ID AND A PASSWORD ARE REQUIRED TO ACCESS GRAIN DATA.
02890 WRITE (THESE CAN BE OBTAINED FROM ED OVERTON)
02900 WRITE
02910 WRITE PLEASE ENTER ID:
02920       READ ID
02930       IF &ID EQ &STR(      ) THEN DO
02940          WRITE OK, ENTER PASSWORD:
02950          READ PASSWD
02960          ENDO
02970       ELSE DO
02980           WRITE WRONG, NO GRAIN DATA WILL BE PRINTED.
02990           SET PASSWD=&STR(WRONG)
03000           ENDO
03010       IF &CHKNAME EQ &STR() THEN DO
03020          WRITE PLEASE ENTER THE NAME OF YOUR CHECKPOINT FILE
03030          WRITE CONTAINING THE LIST OF COUNTRIES AND CODES:
03040             READ CHKNAME
03050       ENDO
03060
03070
03080 WRITE
03090 EDIT 'ERS75.ER3RM.DUMMY.BATCHJOB.CNTL(RUNBATCH)' CNTL NONUM
03100 VERIFY OFF
03110 TOP
03120 DEL *
03130 INSERT //&JOBNAME JOB (&ACCOUNT.,TS000),'BATCHJOB',
03140 INSERT //           MSGLEVEL=1,PRTY=&PRTY.,NOTIFY=&SYSUID.,
03150 INSERT //           TIME=(&MINUTES.,&SECONDS.),CLASS=&CLASS.
```

```
03160 INSERT //STEPN  EXEC ERSOASIS,REGION.OASIS=600K,LIST='(&SYSOUT.,,&FORM.)'
03170 BOTTOM
03180 INSERT SIZE(250)
03190 INSERT NOECHO
03200 INSERT ONERROR(NOMESSAGE NOTRACE CONTINUE)
03210 INSERT RESTORE &CHKNAME
03220 INSERT ID="&ID"
03230 INSERT PASSWD="&PASSWD"
03240 INSERT BRANCH='&BRANCH'
03250 INSERT GET BATCHRPT ON REPORT
03260 INSERT EXECUTE BATCHRPT
03270 INSERT //OASIS.&CHKNAME. DD DSN=&SYSPREF..&CHKNAME..SPEKSAVE,
03280 INSERT //          DISP=SHR
03290 INSERT //OASIS.REPORT DD DSN=ERS75.ER3RM.OGSMRPT.DATA,
03300 INSERT //          DISP=SHR
03310 INSERT ??
03320 INSERT //
03330 TOP
03340 CHANGE * 99999 '??' '/*' ALL
03350 UNNUM
03360 SUBMIT
03370 END NOSAVE
03380
03390
03400 FINISH: FREEALL
END OF DATA
```

ERS75.ER3RM.DUMMY.BATCHJOB.CNTL

```
/* ERS75.ER3RM.DUMMY.BATCHJOB.CNTL(RUNBATCH) */
//OASIS.SPEAKIN DD *
END OF DATA
```

BATCHRPT

The batch version of COREPORT. It initializes variables and calls the other programs.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

BRANCH - Defines the type of output desired, allowing for proper program branching.

COUNTRY - N x 3 character array containing a list of IFS codes.

ID - OSF id required for grain data.

N - Number of countries.

NAME - N x 30 character array of country names corresponding to codes in COUNTRY.

PASSWD - OSF password required for grain data.

VARIABLES DEFINED IN THE PROGRAM:

ERROR - Error flag used by GETCODE to mark invalid IFS codes.

I - Loop index. Runs from 1 through N.

OSF - 1 x 2 character array. Will contain the OSF code being processed.

TERM - Defines terminal size for output. Set to "b" for batch.

TYPE - Set to 'either' when either type of forecast output is desired. Set to 'default' otherwise.

```
EDITING BATCHRPT
  1 PROGRAM
  2 $
  3 $ THIS PROGRAM IS A BATCH VERSION OF THE PROGRAM COREPORT
  4 $ "N", "COUNTRY", AND "NAME" MUST BE DEFINED IN A CHECKPOINT BEFORE RUNNING
  5 $
  6 MARGINS(140)
  7 TERM="B"
  8 GETLIST ALLPROGS ON REPORT
  9 ONERROR(NOMESSAGE NOTRACE CONTINUE)
 10 $
 11 TYPE=°EITHER°; IF (BRANCH.EQ.°HIST°) TYPE=°DEFAULT°
 12 $
 13 $
 14 FOR I=1,N
 15        OSF=ARRAY(1,2:"  ")
 16        ERROR=0
 17        EXECUTE GETCODE
 18        IF(ERROR.EQ.1) GO TO NEXT1
 19        $
 20        MIDCHAR=ARRAY(:"0123456789")
 21        FOR II=1,10
 22            IF(COUNTRY(I,2).EQ.MIDCHAR(II)) GO TO MACRO
 23        ENDLOOP II
 24        FREE II MIDCHAR
 25        $
 26     $
 27     PRINT "NO MACROECONOMIC DATA AVAILABLE FOR " NAME(I,)
 28     $
 29        GO TO GRAIN
 30     MACRO: IF (BRANCH.NE.°FORE°) EXECUTE MACRO
 31     GRAIN: IF(OSF(1,1).EQ." ") GO TO NONE
 32        IF (NAMELIT(ID).EQ.°[redacted]°) EXECUTE GRAINS
 33        GO TO NEXT1
 34     NONE:  PRINT "NO GRAIN DATA AVAILABLE FOR "NAME(I,)
 35     NEXT1:
 36 ENDLOOP I
```

April 6, 1981

COREPORT

The main prompting program for interactive use. It requests the data necessary for execution of the remaining programs and initializes variables.

PERIODIC CHANGES REQUIRED: Three lines use the OSF id which is changed periodically.

VARIABLES DEFINED IN THE PROGRAM:

BRANCH - Defines the type of output desired, allowing for proper program branching.

COUNTRY - N x 3 character array containing a list of IFS codes.

ERROR - Error flag used by GETCODE to mark invalid IFS codes.

I - Loop index. Runs from 1 through N.

ID - OSF id required for grain data.

N - Number of countries.

NAME - N x 30 character array of country names corresponding to codes in COUNTRY.

OSF - 1 x 2 character array. Will contain OSF code being processed.

PASSWD - OSF password required for grain data.

TERM - Defines terminal size for output. Set to "s" for standard (155 characters/line) terminal or "m" for miniterm.

TYPE - Set to 'either' when BRANCH is set to either 'both' of 'fore'. Set to 'default' otherwise.

```
EDITING COREPORT
   1 PROGRAM
   2 $
   3 LOAD SPACE ASKCHAR
   4 $
   5 $ REQUESTS COUNTRY INFORMATION FROM USER, DEFINES VARIABLES
   6 $
   7 PRINT "*************************************************************"
   8 SPACE 1
   9 PRINT "TO USE THIS PROGRAM, THE OPERATOR MUST KNOW THE"
  10 PRINT "IFS COUNTRY CODES FOR THE COUNTRIES DESIRED."
  11 SPACE 1
  12 PRINT "A SUMMARY OF THE CODES IS AVAILABLE ON THE INSIDE COVER"
  13 PRINT "OF °INTERNATIONAL FINANCIAL STATISTICS° OR BELOW."
  14 SPACE 1
  15 PRINT "*************************************************************"
  16 SPACE 1
  17 PRINT "IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS"
  18 PRINT "SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH."
  19 SPACE 1
  20 PRINT "*************************************************************"
  21 SPACE 1
  22 $
  23 $ THIS SECTION REQUIRES USER TO DEFINE THE NUMBER OF COUNTRIES REQUESTED
  24 $
  25 ONERROR( NOTRACE NOMESSAGE CONTINUE)
  26 $
  27    WIDTH: TERM="M"; MARGINS(80)
  28           PRINT "TO INSURE THAT PRINTOUT IS READABLE, PLEASE ENTER MINI (80-155 CHARS/LINE)"
  29           ASKCHAR "OR STANDARD (155 CHARS/LINE) TERMINAL (M OR S):    ","ANS="
  30                  $
  31                  $ MARGINS WILL BE SET AT 80 UNLESS
  32                  $ STANDARD TERMINAL DESIGNATED.
  33                  $
  34                  IF (ANS.NE."S") GO TO BEGIN
  35                  TERM="S"
  36                  MARGINS(155)
  37                  $
  38    BEGIN: ANS=" ";NUMBER=0
  39           $
  40           GETLIST ALLPROGS ON REPORT  $ ALLPROGS IS A NAMELIST
  41                                       $ CONTAINING THE PROGRAMS
  42                                       $ "MACRO", "GRAINS",
  43                                       $  "GETCODE", "TABLES"
```

```
44          $
45          PRINT "DO YOU WISH TO SEE A LIST OF THE COUNTRIES AND THE"
46          ASKCHAR "IFS CODES WHICH ARE AVAILABLE?(Y OR N):    ","ANS="
47          IF(ANS.EQ."Y") EXECUTE TABLES
48          FREEIF TABLES
49               SPACE 1
50        $
51        PRINT "************************************************************"
52        $
53        USEDATA:
54         PRINT "PLEASE CHOOSE ONE OF THE FOLLOWING OPTIONS FOR OUTPUT:"
55         SPACE 1
56         PRINT "** HISTORIC DATA ** THIS IS THE DEFAULT ** ENTER °HIST°  **"
57         PRINT "**             MACROECONOMIC AND GRAIN DATA               **"
58         SPACE 1
59         PRINT "** FORECAST DATA **  TABLES AND GRAPHS  ** ENTER °FORE°  **"
60         PRINT "**    PRODUCTION,CONSUMPTION, AND NET IMPORTS ONLY        **"
61         PRINT "** SIMPLE LINEAR AND DOUBLE-LOG PROJECTIONS FOR 5 YEARS  **"
62         SPACE 1
63         PRINT "**   BOTH HISTORIC AND FORECAST DATA    ** ENTER °BOTH°  **"
64         SPACE 1
65         PRINT "** TO SAVE VARIABLES (ONE COUNTRY ONLY) ** ENTER °SAVE°  **"
66         PRINT "**      RETURNS HISTORIC VARIABLES FOR OPERATOR USE       **"
67         SPACE 1
68         PRINT "************************************************************"
69           ASKNAME "PLEASE ENTER ONE OF THE ABOVE OPTIONS:    ","BRANCH="
70           TYPE=°DEFAULT°
71           IF(BRANCH.EQ.°FORE° .OR. BRANCH.EQ.°BOTH°) TYPE=°EITHER°
72           SPACE 1
73           $
74    PASS:  PRINT "AN ID AND A PASSWORD ARE REQUIRED TO ACCESS GRAIN DATA"
75           PRINT "THESE MAY BE OBTAINED FROM ED OVERTON"
76           SPACE 1
77           PRINT "ENTER THE ID NUMBER FOR GRAIN DATA; °QUIT° TO"
78           PRINT "END THIS SESSION; OR (RETURN) FOR"
79           ASKCHAR "MACROECONOMIC DATA ONLY:                    ","ID="
80                IF(NAMELIT(ID).EQ.°QUIT°) QUIT
81                IF(NAMELIT(ID).EQ.°[redacted]°) ASKCHAR "ENTER PASSWORD:          ","PASSWD="
82           SPACE 1
83           IF(BRANCH.EQ.°SAVE°) GO TO SAVE1
```

```
 84            $
 85     ASK1:  ASK "HOW MANY COUNTRIES DO YOU WISH TO ENTER?    ","NUMBER="
 86            SPACE 1
 87            IF(NUMBER.GT.0) GO TO CKHIGH
 88            $
 89            ASKCHAR "DO YOU WISH TO CONTINUE? (Y OR N)    ","ANS="
 90            SPACE 1
 91            IF(ANS.NE."Y") QUIT
 92            GO TO ASK1
 93            $
 94            CKHIGH: $ ARBITRARY MAXIMUM NUMBER TO BE ENTERED INTERACTIVELY
 95                IF(NUMBER.GT.10) GO TO ASK1
 96                $
 97 SAVE1: IF(BRANCH.EQ.°SAVE°) NUMBER=1
 98 $
 99 N=NUMBER
100 COUNTRY=(N,3:"   ")
101 NAME=(N,30:"   ")
102 $
103 FOR I=1,N
104         NAME: NAME(I,)="                          " $ CLEAR 1 NAME
105         $
106         ASKCHAR "ENTER A COUNTRY/REGION NAME:    ","NAME(I,)="
107                 SPACE 1
108                 IF (NAME(I,1).EQ." ") GO TO ERR1
109         ASKCHAR "ENTER 3 DIGIT IFS CODE FOR THIS COUNTRY:   ","COUNTRY(I,)="
110                 SPACE 1
111                 IF (COUNTRY(I,1).EQ." ") GO TO ERR1
112                 $
113         PRINT NAME(I,) COUNTRY(I,)
114         SPACE 1
115         $
116         CHECK: ANS=" "
117                 ASKCHAR "IS THIS CORRECT? (Y OR N) ","ANS="
118                 SPACE 1
119                 IF(ANS.NE."Y") GO TO NAME
120                 GO TO NEXT
121                 $
122         ERR1:
123                 ASKCHAR "DO YOU WISH TO CONTINUE? (Y OR N) ","ANS="
124                 IF (ANS.NE."Y") QUIT
125                 $
126         NEXT:
127 ENDLOOP I
128 $
129 UNLOAD ASKCHAR
130 $
131 FOR I=1,N
132         OSF=ARRAY(1,2:"  ")
133         ERROR=0
134         EXECUTE GETCODE
135         IF(ERROR.EQ.1) GO TO NEXT1
136         $
137         MIDCHAR=ARRAY(:"0123456789")
138         FOR II=1,10
139             IF(COUNTRY(I,2).EQ.MIDCHAR(II)) GO TO MACRO
140         ENDLOOP II
141         $
142         $
143         PRINT "NO MACROECONOMIC DATA AVAILABLE FOR " NAME(I,)
144         $
```

```
145         GO TO GRAIN
146      MACRO: IF(BRANCH.EQ.°SAVE°) GO TO SAVE2
147          IF(BRANCH.NE.°FORE°) EXECUTE MACRO
148      GRAIN: IF(OSF(1,1).EQ." ") GO TO NONE
149         IF(NAMELIT(ID).EQ.°[redacted]°) EXECUTE GRAINS
150         GO TO NEXT1
151      NONE:  PRINT "NO GRAIN DATA AVAILABLE FOR "NAME(I,)
152      NEXT1:
153 ENDLOOP I
154 $
155 FREEIF GETCODE MACRO GRAINS IFSDATA OSFDATA MIDCHAR I II ERROR NUMBER
156 $
157 $ ALLOW USER TO CONTINUE
158         SPACE 2
159         ASKCHAR "DO YOU WISH TO CONTINUE? (Y OR N)    ","ANS="
160         SPACE 1
161         IF (ANS.NE."Y") QUIT
162         GO TO BEGIN
163 $
164 SAVE2: GET MACROSAV ON REPORT
165         GET GRAINSAV ON REPORT
166         FREEIF GRAINS MACRO
167         $
168         $
169         EXECUTE MACROSAV
170         IF(OSF(1,1).NE." ") GO TO CONT
171         PRINT "NO GRAIN DATA AVAILABLE FOR "NAME(N,)
172         GO TO SKIPOVER
173         CONT: IF(NAMELIT(ID).EQ.°[redacted]°) EXECUTE GRAINSAV
174         $
175 SKIPOVER:
176          SPACE 1
177          PRINT "**  ALL VARIABLES ARE NOW DEFINED AS ONE-DIMENSIONAL   **"
178          PRINT "**  ARRAYS. PLEASE NOTE THAT SOME VARIABLES MAY NOT    **"
179          PRINT "**  HAVE DATA FOR ALL YEARS. MISSING DATA ARE STORED   **"
180          PRINT "**  AS 0°S AND MAY AFFECT CALCULATIONS UNLESS THE      **"
181          PRINT "**  ELEMENTS ARE ESTIMATED OR THE ARRAYS ARE SHORTENED **"
182           $
183 FREEIF MACROSAV GRAINSAV TYPE BRANCH OSF OSFDATA IFSDATA
184 FREEIF ANS ANSWER TYPE TERM
185 UNLOAD SPACE
```

April 6, 1981

COUNTRY.REPORT.CLIST

Allocates files and directs the user to batch or interactive processing.

```
00010 TERM LINESIZE(155)
00020 WRITE **** THANK YOU &SYSUID FOR USING THE "COUNTRY REPORT" PROGRAM ****
00030 WRITE
00040 WRITE       IF MORE THAN 3 COUNTRIES ARE BEING PRINTED, IT IS
00050 WRITE       SUGGESTED THAT THE PROGRAM BE SUBMITTED BY BATCH.
00060 WRITE
00070 WRITENR       DO YOU WISH THIS TO BE A BATCH RUN? (Y OR N):
00080 READ
00090 WRITE
00100 WRITE ************************************************************
00110 IF &SYSDVAL=Y THEN GOTO BTCH
00120 ALLOC FI(REPORT) DA(°ERS75.ER3RM.OGSMRPT.DATA°) SHR
00130 WRITE
00140 TSO: WRITE       AFTER ENTERING OASIS, YOU MUST TYPE
00150 WRITE       THE FOLLOWING LINE:
00160 WRITE
00170 WRITE            SIZE(200)
00180 WRITE
00190 WRITE       YOU WILL THEN BE ASKED FOR YOUR ERSID (&SYSUID) AND
00200 WRITE       YOUR TERMINAL TYPE.  AFTERWARDS, TYPE THE FOLLOWING LINE:
00210 WRITE
00220 WRITE           GET COREPORT ON REPORT;COREPORT
00230 WRITE
00240 OASIS
00250 GOTO FIN
00260 BTCH: EXEC ER3RM.BATCHPGM.CLIST
00270 FIN:END
END OF DATA
```

FORECAST

Creates forecasts and graphs for selected grain data. First determines whether the three time series are missing any data and must be truncated, then runs simple linear regressions on each series and the logarithms of each series. Five-year estimates are then made from the results and appended to each series. Finally, the data are graphed against time.

PERIODIC CHANGES REQUIRED: The variable LASTYR must be changed yearly to correspond with the last year of the time series.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

J

NSPR; SPREND
NNET; NETEND
NUDT; UDTEND

PEST; LPEST — Defined in GRAINS
NEST; LNEST
CEST; LCEST

RSQ; LRSQ

VARIABLES RETURNED BY THE PROGRAM:

SHRTPEST - Production five-year linear estimates.
SHRTNEST - Net imports five-year linear estimates.
SHRTCEST - Consumption five-year linear estimates.

LPEST - Production five-year logarithmic estimates.
LNEST - Net imports five-year logarithmic estimates.
LCEST - Consumption five-year logarithmic estimates.

NO - Three-element array containing the number of elements in each regression series (after truncation).

RSQ; LRSQ - R^2 values for linear and logarithmic regression runs.

```
EDITING FORECAST
   1 PROGRAM
   2 $
   3 YRS1=(20:);YRS2=(20:);YRS3=(20:)
   4 LASTYR=1980                        $ REQUIRES YEARLY UPDATE
   5 YEARS=INTS(LASTYR-19 LASTYR+5)     $ PERIOD TO BE PRINTED OUT
   6 $
   7 $
   8 BEGYR = (LASTYR-19),(LASTYR-19),(LASTYR-19)
   9 BEGYR(1) = BEGYR(1)+(MIN(LOC(NSPR(J,).NE.0))-1)  $ IF DATA IS
  10 BEGYR(2) = BEGYR(2)+(MIN(LOC(NNET(J,).NE.0))-1)  $ MISSING, REDEFINE
  11 BEGYR(3) = BEGYR(3)+(MIN(LOC(NUDT(J,).NE.0))-1)  $ BEGINNING YEAR
  12 $
  13 ENDYR = (LASTYR-21),(LASTYR-21),(LASTYR-21)
  14 ENDYR(1) = ENDYR(1)+SPREND(J,1)                  $ REPEAT
  15 ENDYR(2) = ENDYR(2)+NETEND(J,1)                  $ FOR
  16 ENDYR(3) = ENDYR(3)+UDTEND(J,1)                  $ ENDING YEAR
  17 $
  18 YRS1=INTS(BEGYR(1),ENDYR(1));NO(1)=NOELS(YRS1)   $ NUMBER OF YEARS IN
  19 YRS2=INTS(BEGYR(2),ENDYR(2));NO(2)=NOELS(YRS2)   $ TIME SERIES FOR
  20 YRS3=INTS(BEGYR(3),ENDYR(3));NO(3)=NOELS(YRS3)   $ EACH VARIABLE
  21 $
  22 LOAD MULTIREGRESSION
  23 HENCEFORTH MU IS MULTIREGRESSION
  24         $
  25         $
  26         B=(BEGYR(1)+20)-LASTYR;E=SPREND(J,1)-1    $ PICK OUT ONLY NON-ZERO
  27         PROD=NSPR(J,);SELECT(PROD:INTS(B E))      $ ELEMENTS OF THE ARRAY
  28         $
  29         PRODCO=(2:);PRODCO = MU(YRS1,PROD:R C)
  30             RSQ(J,1)=C*1000;FREE R C
  31         LPRODCO=(2:);LPRODCO = MU(YRS1,LOG(PROD):R C)
  32             LRSQ(J,1)=C*1000;FREE R C
  33         $
  34         B=(BEGYR(2)+20)-LASTYR;E=NETEND(J,1)-1
  35         NETI=NNET(J,);SELECT(NETI:INTS(B E))
  36         $
  37         NETICO=(2:);NETICO = MU(YRS2,NETI:R C)
  38             RSQ(J,2)=C*1000;FREE R C
  39             $
  40             SIGN=1                                $ IF ALL NET IMPORTS ARE
  41             COUNTER=0                             $ NEGATIVE, CONVERT TO
  42             FOR H=B E                             $ POSITIVE TO REGRESS THE LOGS

  43                IF(NETI(H).LT.0) COUNTER=COUNTER+1 $
  44             ENDLOOP H                             $ NO LOG REGRESSION CAN BE
  45             IF(COUNTER.EQ.(E-B+1)) SIGN=-1        $ RUN IF SOME ARE POSITIVE AND

  46                                                   $ SOME ARE NEGATIVE
  47             NETI=NETI*SIGN                        $
  48             $
  49         LNETICO=(2:);LNETICO = MU(YRS2,LOG(NETI):R C)
  50             LRSQ(J,2)=C*1000;FREE R C
  51         $
  52         B=(BEGYR(3)+20)-LASTYR;E=UDTEND(J,1)-1
  53         CONS=NUDT(J,);SELECT(CONS:INTS(B E))
  54         $
  55         CONSCO=(2:);CONSCO = MU(YRS3,CONS:R C)
  56             RSQ(J,3)=C*1000;FREE R C
  57         LCONSCO=(2:);LCONSCO = MU(YRS3,LOG(CONS):R C)
  58             LRSQ(J,3)=C*1000;FREE R C
  59         $
  60 UNLOAD MULTIREGRESSION
```

```
61        $
62 YREST = INTS(LASTYR+1 LASTYR+5) $ ESTIMATES WILL BE FOR 5 YEARS
63 $
64 PEST(J,) = PRODCO(1)+PRODCO(2)*YREST  $
65 NEST(J,) = NETICO(1)+NETICO(2)*YREST  $ LINEAR FORECASTS
66 CEST(J,) = CONSCO(1)+CONSCO(2)*YREST  $
67 $
68 LPEST(J,) = EXP(LPRODCO(1)+LPRODCO(2)*YREST)        $ LOG
69 LNEST(J,) = SIGN*(EXP(LNETICO(1)+LNETICO(2)*YREST)) $ FORE-
70 LCEST(J,) = EXP(LCONSCO(1)+LCONSCO(2)*YREST)        $ CASTS
71 $
72 PAD=0 0 0 0 0 0 0 0 0 0
73 PRODCTN=(20:);NETIMPTS=(20:);CNSMPTN=(20:)
74 HENCEFORTH SR IS SHIFTRIGHT
75 $
76 ZERO=INTS(1 LASTYR-ENDYR(1)+5)               $ °0°S NEEDED TO PAD VARIABLE
77 PRODCTN=NSPR(J,)                             $ ACTUAL PRODUCTION**
78 PRODCTN=PRODCTN PAD(ZERO)                    $ PAD ACTUAL TO GRAPH **
79 PEST(J,)=SR(PEST(J,),20);PLINEST=PEST(J,)    $ PUT °0°S IN FRONT OF ESTS
80 LPEST(J,)=SR(LPEST(J,),20);PLOGEST=LPEST(J,) $ TO GRAPH PROPERLY
81 $
82 ZERO=INTS(1 LASTYR-ENDYR(2)+5)               $
83 NETIMPTS=NNET(J,)                            $
84 NETIMPTS=NETIMPTS PAD(ZERO)                  $ NET IMPORTS
85 NEST(J,)=SR(NEST(J,),20);NLINEST=NEST(J,)    $
86 LNEST(J,)=SR(LNEST(J,),20);NLOGEST=LNEST(J,) $
87 $
88 ZERO=INTS(1 LASTYR-ENDYR(3)+5)               $
89 CNSMPTN=NUDT(J,)                             $
90 CNSMPTN=CNSMPTN PAD(ZERO)                    $ CONSUMPTION
91 CEST(J,)=SR(CEST(J,),20);CLINEST=CEST(J,)    $
92 LCEST(J,)=SR(LCEST(J,),20);CLOGEST=LCEST(J,) $
93 $
94 NEWPAGE
95 $
96 HSCALE=(LASTYR-19.25,LASTYR+5.25)
97 HSIZE=65
98 VSIZE=20
99 VLABEL=°       °
100 $
101 SPACE 2
102 PRINT "**** NOTE ************************************************************"
103 PRINT "     POINTS PLOTTED AT °0° ARE CREATED BY THE PROGRAM"
104 PRINT "     PLEASE DISREGARD"
105 $
106 SPACE 2
107 PRINT "************ " NAME(I,) " " CEREAL(J,) " ************"
108 SPACE 1
109 $
```

```
110 PRINT "PRODUCTION AND CONSUMPTION, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES"
111 PRINT "**** PRODCTN=PRODUCTION (ACTUAL)    CNSMPTN=CONSUMPTION (ACTUAL) ****"
112 PRINT "**** PLINEST,CLINEST=PRODUCTION AND CONSUMPTION LINEAR ESTIMATES ****"
113 PRINT "**** PLOGEST,CLOGEST=PRODUCTION AND CONSUMPTION LOGARITHMIC ESTS ****"
114 SPACE 1
115 $
116 FILLER=(25:)
117 $
118 GRAPHZ(PRODCTN PLINEST PLOGEST CNSMPTN CLINEST CLOGEST:YEARS)
119 $
120 NEWPAGE
121 SPACE 2
122 $
123 PRINT "NET IMPORTS, ACTUAL + LINEAR AND LOGARITHMIC ESTIMATES"
124 PRINT "****          NETIMPTS=NETIMPORTS (ACTUAL)          ****"
125 PRINT "****      NLINEST=NET IMPORTS, LINEAR ESTIMATES     ****"
126 PRINT "****  NLOGEST=NET IMPORTS, LOGARITHMIC ESTIMATES  ****"
127 SPACE 1
128 $
129 $
130 GRAPHZ(NETIMPTS NLINEST NLOGEST FILLER:YEARS)
131 SPACE 2
132 $
133 SHRTPEST=ELIMCOLS(PEST,INTS(1,15))
134 SHRTNEST=ELIMCOLS(NEST,INTS(1,15))
135 SHRTCEST=ELIMCOLS(CEST,INTS(1,15))
136 $
137  FREEIF PRODCTN PLINEST PLOGEST CNSMPTN CLINEST CLOGEST B E PAD COUNTER
138  FREEIF NETIMPTS NLINEST NLOGEST YEARS LASTYR BEGYR ENDYR YRS1 YRS2 YRS3
139  FREEIF PRODCO LPRODCO NETICO LNETICO CONSCO LCONSCO PROD NETI CONS H
140  FREEIF YREST SIGN ZERO HSCALE HSIZE VSIZE VLABEL FILLER
```

April 7, 1981

GETCODE

Uses the first digit of an IFS code to determine which "region" contains the corresponding country name and OSF code, then uses the entire IFS code to find the exact row in which the correct data is stored. The corresponding OSF code is placed in the variable OSF. GETCODE is also used by NAMEFIND to retreive country names when creating a CHECKPOINT file.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

COUNTRY I N NAME	Defined in COREPORT or BATCHRPT

VARIABLES DEFINED IN THE PROGRAM:

- OSF - 1 x 2 character array containing the OSF code corresponding to the IFS code being processed.
- OSFLOC - Index to the row in REGIONA where the codes and country name are found.
- REGIONA - Temporary object containing one of the 10 regions (REGION1 through REGION10).

```
EDITING GETCODE
  1 PROGRAM
  2 $
  3 $ THE REGIONS DEFINED IN PROGRAM "TABLES" ARE STORED AS DATA WITH NAMES
  4 $ "REGION1" THROUGH "REGION10".  THE REGION DESIRED WILL BE FOUND BY
  5 $ CHOOSING THE FIRST CHARACTER IN "COUNTRY(I,)" AND USING THIS TO FIND
  6 $ THE NUMBER OF THE REGION TO SEARCH FOR THE ENTIRE CODE.
  7 $
  8 A=0;B=0
  9 $
 10       IF(COUNTRY(I,1).EQ."0") A=1
 11       IF(COUNTRY(I,1).NE."1") GO TO GET9
 12            A=2;B=3
 13 GET9:  IF(COUNTRY(I,1).NE."9") GO TO GET8
 14            A=4;B=5
 15 GET8:  IF(COUNTRY(I,1).EQ."8") A=6
 16       IF(COUNTRY(I,1).EQ."4") A=7
 17       IF(COUNTRY(I,1).EQ."6"  .OR.  COUNTRY(I,1).EQ."7") A=8
 18       IF(COUNTRY(I,1).EQ."2"  .OR.  COUNTRY(I,1).EQ."3") A=9
 19       IF(COUNTRY(I,1).EQ."5") A=10
 20 $
 21 IF(A.EQ.0) GO TO ERR2   $ THE FIRST CHARACTER MUST BE A NUMERAL OR THE
 22                         $CODE WAS ENTERED INCORRECTLY
 23                         $
 24 OSFLOC=0
 25 II=2              $ SOME CODES ARE CONTAINED IN MORE THAN 1 REGION: THOSE WHICH
 26 IF(B.EQ.0) II=1   $ BEGIN WITH THE NUMERALS 1 OR 9 MAY REQUIRE 2 SEARCHES.
 27                   $ SOME OTHERS MAY ALSO BE IN MORE THAN 1 REGION, BUT CAN
 28                   $ BE FOUND BY ONLY SEARCHING 1.
 29                   $
 30 FOR III=1,II
 31       IF(III.EQ.2) A=B $ IF REGION "A" SEARCH FAILS, USE REGION "B"
 32       GET OBJECT(°REGION°,A) ON REPORT
 33       REGIONA=OBJECT(°REGION°,A)
 34       $
 35       OSFLOC=0
 36       LOC1=LOCS(COUNTRY(I,1).EQ.REGIONA(,1)) $ TRY TO FIND MATCHING IFS
 37       LOC2=LOCS(COUNTRY(I,2).EQ.REGIONA(,2)) $ CODES BY INDIVIDUAL
 38       LOC3=LOCS(COUNTRY(I,3).EQ.REGIONA(,3)) $ CHARACTERS
 39       $
 40       OSFLOC=INTERSECTION(LOC1,LOC2,LOC3)    $ THEN FIND INTERSECTION
 41       $
 42       $ ABOVE LINE SHOULD RETURN 1 VALUE TO OSFLOC -- THE
 43       $ ROW WHERE ALL 3 CHARACTERS OF THE IFS CODE
 44       $ MATCH THE CODE IN MEMORY.
 45       $
 46       IF(OSFLOC.GT.0) GO TO FINDOSF
 47       $
 48 ENDLOOP III
 49 $
 50 ERR2:  SPACE 1
 51       PRINT "***** COUNTRY CODE °" COUNTRY(I,) "° IS INCORRECT *****"
 52       SPACE 1
 53       ERROR=1
 54       GO TO BOTTOM
 55 $
 56 FINDOSF: JJ=INTS(35,36);OSF=REGIONA(OSFLOC,JJ)
 57          FREEIF A  LOC1 LOC2 LOC3  II III JJ B
 58 BOTTOM:
```

GRAINS

Program to retrieve and tabulate grain data. Sets up headings and initiates variables for OSFDATA or FORECAST. Tabulates results.

PERIODIC CHANGES REQUIRED: The variables TDIP, TDLP, YEAR, and HEADER must be updated yearly as the database is updated.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

BRANCH
COUNTRY
I
ID
N — Defined in COREPORT or BATCHRPT
NAME
OSF
PASSWD
TERM
TYPE

VARIABLES DEFINED IN THE PROGRAM:

J - Loop index. Runs from 1 through 4 (once for each grain).

LGF - TDAM logical-group frequency. Set to "a" for annual, "q" for quarterly.

NSPR - Production data for FORECAST.
NNET - Net import data for FORECAST.
NVDT - Consumption data for FORECAST.

PEST - Array to contain production forecasts.
NEST - Array to contain net imports forecasts.
CEST - Array to contain consumption forecasts.

RSQ; LRSQ - Arrays which will contain R^2 values from regressions.

TDIP
TDLP - TDAM variables containing the first and last periods in the time series to be retrieved.

```
EDITING GRAINS
   1 PROGRAM
   2  $
   3  OSF:  TDIP=1961001    $ REQUIRES YEARLY UPDATE
   4        TDLP=1980001
   5        LGF="A"
   6        $
   7  YEAR=INTS(1961 1980)
   8  FISCAL=YEAR-1899
   9  CEREAL=ARRAY(4,12:"WHEAT       RICE        COARSE GRAINTOTAL GRAIN ")
  10  $
  11  HEADER=ARRAY(35,5:"1961 1962 1963 1964 1965 1966 1967 1968 1969 1970")
  12  HEADER(11,)="1971";HEADER(12,)="1972";HEADER(13,)="1973";HEADER(14,)="1974";HEADER(15,)="1975"
  13  HEADER(16,)="1976";HEADER(17,)="1977";HEADER(18,)="1978";HEADER(19,)="1979";HEADER(20,)="1980"
  14  HEADER(23,)="FORE-";HEADER(24,)="CASTS";HEADER(32,)="RSQR";HEADER(33,)="X1000";HEADER(35,)=" N: "
  15  HEADER(26,)="1981";HEADER(27,)="1982";HEADER(28,)="1983";HEADER(29,)="1984";HEADER(30,)="1985"
  16       $
  17       $
  18       NSPR=(4,20:)
  19       NUDT=(4,20:)
  20       NNET=(4,20:)
  21       $
  22       PEST=(4,25:);LPEST=(4,25:)
  23       NEST=(4,25:);LNEST=(4,25:)
  24       CEST=(4,25:);LCEST=(4,25:)
  25        $
  26       RSQ=(4,3:);LRSQ=(4,3:);NO=(3:)
  27       $
  28 GET OSFDATA ON REPORT
  29 EXECUTE OSFDATA
  30 FREE OSFDATA
  31 $
  32 BLANK=(5:)
  33 IF(TYPE.EQ.°EITHER°) GET FORECAST ON REPORT
  34 $
  35 FOR J=1,4
```

```
36       $
37       TEMPJUNK=OBJECT("GRDATA",J)
38       NSPR(J,)=TEMPJUNK(,4)
39       NUDT(J,)=TEMPJUNK(,8)
40       $
41       IF(TYPE.EQ.°EITHER°) EXECUTE FORECAST
42       $
43       ANN13 =YEAR
44       FOR JK=1,11
45            OBJECT("ANN",JK)=TEMPJUNK(,JK)
46       ENDLOOP JK
47           IF(TYPE.EQ.°EITHER°) ANN4=ANN4,SHRTPEST(J,),0,RSQ(J,1),0,0,NO(1)
48              ANN4A=BLANK,LPEST(J,),0,LRSQ(J,1),0,0,NO(1)
49           IF(TYPE.EQ.°EITHER°) ANN8=ANN8,SHRTCEST(J,),0,RSQ(J,3),0,0,NO(3)
50              ANN8A=BLANK,LCEST(J,),0,LRSQ(J,3),0,0,NO(3)
51           IF(TYPE.EQ.°EITHER°) ANN12=NNET(J,),SHRTNEST(J,),0,RSQ(J,2),0,0,NO(2)
52              ANN12A=BLANK,LNEST(J,),0,LRSQ(J,2),0,0,NO(2)
53       $
54       PRINTSPECS(ANN2:SIGNIFICANCE 4)
55       FREEIF JK TEMPJUNK SHRTPEST SHRTCEST SHRTNEST
56       $
57 LOAD HENCEFORTH PRINTSPECS
58 $
59 HENCEFORTH PS IS PRINTSPECS;HENCEFORTH S IS SUPPRESS
60 HENCEFORTH H IS HEADING;HENCEFORTH A IS ARRAY;HENCEFORTH D IS DECIMALS
61 $
62 $
63 PS(HEADER:S 0 H A(5,4:"     "))
64 PS(ANN13: S 0 H A(5,4:"YEAR"))
65 PS(ANN1:  S 0 H A(5,4:"AREAHAR-VEST1000HECT"))
66 PS(ANN2:  S 0 H A(5,5:"YIELD          MT/  HECT"))
67 PS(ANN3:  S 0 H A(5,8:"BEGIN-  NING     STOCKS   1000  MET TONS"))
68 PS(ANN4:  S 0 H A(5,8:"PRODUC- TION             1000  MET TONS") D 0 )
69 PS(ANN4A: S 0 H A(5,4:"PROD        LOG ESTS") D 0 )
70 PS(ANN5:  S 0 H A(5,8:"  TOTAL  IMPORTS         1000  MET TONS"))
71 PS(ANN6:  S 0 H A(5,8:"  TOTAL  EXPORTS         1000  MET TONS"))
72 PS(ANN7:  S 0 H A(5,8:"DOMESTICFOR FEED         1000  MET TONS"))
73 PS(ANN8:  S 0 H A(5,8:"CONSUMP-TION      TOTAL  1000  MET TONS") D 0 )
74 PS(ANN8A: S 0 H A(5,4:"CONS        LOG ESTS") D 0 )
75 PS(ANN14: S 0 H A(5,6:"FISCAL YEAR "))
76 PS(ANN9:  S 0 H A(5,9:"JULY-JUNEIMP FR US            1000   MET TONS"))
77 PS(ANN10: S 0 H A(5,9:"JULY-JUNE TOT IMP             1000   MET TONS"))
78 PS(ANN11: S 0 H A(5,9:"JULY-JUNE TOT EXP             1000   MET TONS"))
79 PS(ANN12: S 0 H A(5,8:"  NET   IMPORTS          1000  MET TONS") D 0 )
80 PS(ANN12A:S 0 H A(5,4:"NET IMPS    LOG ESTS") D 0 )
81 $
82 $
83 HENCEFORTH PS IS PS;HENCEFORTH S IS S;HENCEFORTH H IS H;HENCEFORTH A IS A
84 HENCEFORTH D IS D
85 $
86 UNLOAD HENCEFORTH PRINTSPECS
87  $
```

```
 88      T=NAME(I)," SUPPLY AND UTILIZATION OF ",CEREAL(J,)
 89  $
 90  NEWPAGE
 91  IF (TERM.EQ."M" .OR. BRANCH.EQ.°FORE°) GO TO MINI
 92     IF(TYPE.EQ.°EITHER°) GO TO JUMP
 93     TABULATE ANN13 ANN1 ANN2 ANN3 ANN4 ANN5 ANN6 ANN7 ANN8 ANN9  ANN11:BORDERS SPACE 5 TITLE T
 94     GO TO FOOT
 95  $
 96  JUMP: TABULATE HEADER ANN3 ANN4 ANN4A ANN5 ANN6 ANN7 ANN8 ANN8A ANN12 ANN12A:BORDERS SPACE 5 TITLE T
 97        NEWPAGE
 98        TABULATE ANN13 ANN1 ANN2 ANN14 ANN9  ANN10 ANN11:BORDERS SPACE 5
 99      GO TO FOOT
100      $
101  MINI:
102      IF(TYPE.EQ.°EITHER°) GO TO HOP
103      TABULATE ANN13 ANN1 ANN2 ANN3 ANN4 ANN5 ANN6 : BORDERS SPACE 5 TITLE T
104      TABULATE ANN13 ANN7 ANN8 ANN14 ANN9 ANN10 :BORDERS SPACE 5
105      $
106      HOP:MARGINS(80)
107          IF(BRANCH.EQ.°FORE°) TABULATE HEADER ANN4 ANN4A ANN8 ANN8A ANN12 ANN12A: BORDERS SPACE 5 TITLE T
108          IF(BRANCH.EQ.°BOTH°) TABULATE ANN13 ANN1 ANN2 ANN3 ANN14 ANN9 ANN10 ANN11: TITLE T
109          IF(BRANCH.EQ.°BOTH°) TABULATE HEADER ANN4 ANN4A ANN8 ANN8A ANN12 ANN12A
110          IF(BRANCH.EQ.°BOTH°) TABULATE ANN13 ANN5 ANN6 ANN7
111          IF(TERM.EQ."S") MARGINS(155)
112          IF(TERM.EQ."B") MARGINS(140)
113      $
114  FOOT: PRINT "DATA SOURCE:  FAS DATABASE"
115  DATE
116  NEWPAGE
117  $
118  ENDLOOP J
119  $
120  $
121  FREEIF PRES NRES CRES LPRES LNRES LCRES PEST NEST CEST LPEST LNEST LCEST
122  FREEIF ANN1 ANN2 ANN3 ANN4 ANN5 ANN6 ANN7 ANN8 ANN8A ANN9 ANN10 ANN11
123  FREEIF ANN12 ANN12A ANN13 ANN14 HEADER FISCAL CEREAL BLANK
124  FREEIF FORECAST DATE T TDIP TDLP LGF NSPR NUDT NNET J RSQ LRSQ NO
```

GRAINSAV

Similar in function to GRAINS, but does not free or overwrite data after tabulation, thus saving it for operator use.

PERIODIC CHANGES REQUIRED: The variables TDIP, TDLP, and YEAR must be updated yearly as the database is updated.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

ID
OSF — Defined in COREPORT
PASSWD

VARIABLES DEFINED IN THE PROGRAM:

LGF - TDAM logical-group frequency. Set to "a" for annual, "q" for quarterly.

TDIP - TDAM variables containing the first and last periods in the
TDLP time series to be retrieved.

In addition, variables containing the time series data for each grain are created. The prefixes "WH", "RI", "CG", and "TC" are appended to the variable names to identify the grain data they contain. For example, "WHPROD" contains wheat production figures and "RIPROD" contains rice production figures.

Prefixes:
- WH - wheat
- RI - Rice
- CG - Coarse Grain
- TC - Total Cereal

Suffixes:
- AHARV - Area Harvest (1000 Hectares)
- YIELD - Yield (Metric tons/hectare)
- BSTOCK - Beginning Stocks
- PROD - Production
- DFEED - Domestic Feed Use
- CONS - Domestic Consumption
- FYUS - Fiscal Year (July-June) Imports from the U.S.
- FYIMP - Fiscal Year Imports (Total)
- FYEXP - Fiscal Year Exports (Total)

EDITING GRAINSAV

```
  1 PROGRAM
  2  OSF: TDIP=1961001    $ REQUIRES YEARLY UPDATE
  3       TDLP=1980001
  4       LGF="A"
  5        $
  6  YEAR=INTS(1961 1980)  $ REQUIRES UPDATE TO MATCH YEARS ABOVE
  7 ABBREV=ARRAY(4,2:"WHRICGTC")
  8 NNET=(4,20:)
  9 $
 10 GET OSFDATA ON REPORT
 11 EXECUTE OSFDATA
 12 FREEIF OSFDATA
 13 $
 14 HENCEFORTH OB IS OBJECT
 15 FOR J=1,4
 16       X=OBJECT("GRDATA",J)
 17       $
 18       OB(ABBREV(J,),°AHARV°) =  X(,1)
 19       OB(ABBREV(J,),°YIELD°) =  X(,2)
 20       OB(ABBREV(J,),°BSTOCK°) = X(,3)
 21       OB(ABBREV(J,),°PROD°) =   X(,4)
 22       OB(ABBREV(J,),°IMPORT°) = X(,5)
 23       OB(ABBREV(J,),°EXPORT°) = X(,6)
 24       OB(ABBREV(J,),°DFEED°) =  X(,7)
 25       OB(ABBREV(J,),°CONS°) =   X(,8)
 26       OB(ABBREV(J,),°FYUS°) =   X(,9)
 27       OB(ABBREV(J,),°FYIMP°) =  X(,10)
 28       OB(ABBREV(J,),°FYEXP°) =  X(,11)
 29       $
 30       PRINTSPECS(OB(ABBREV(J,),°YIELD°):SIGNIFICANCE 4)
 31       $
 32 ENDLOOP J
 33 HENCEFORTH OB IS OB
 34 FREEIF ABBREV NNET TDIP TDLP LGF
 35 $
 36 PRINT "** WHEAT DATA AVAILABLE **"
 37       TABULATE YEAR WHAHARV WHYIELD WHBSTOCK WHPROD WHIMPORT WHEXPORT
 38       TABULATE YEAR WHDFEED WHCONS WHFYUS WHFYIMP WHFYEXP
 39 SPACE 1
 40 PRINT "** RICE DATA AVAILABLE **"
 41       TABULATE YEAR RIAHARV RIYIELD RIBSTOCK RIPROD RIIMPORT RIEXPORT
 42       TABULATE YEAR RIDFEED RICONS RIFYUS RIFYIMP RIFYEXP
 43 SPACE 1
 44 PRINT "** COARSE GRAIN DATA AVAILABLE **"
 45       TABULATE YEAR CGAHARV CGYIELD CGBSTOCK CGPROD CGIMPORT CGEXPORT
 46       TABULATE YEAR CGDFEED CGCONS CGFYUS CGFYIMP CGFYEXP
 47 SPACE 1
 48 PRINT "** TOTAL CREAL DATA AVAILABLE **"
 49       TABULATE YEAR TCAHARV TCYIELD TCBSTOCK TCPROD TCIMPORT TCEXPORT
 50       TABULATE YEAR TCDFEED TCCONS TCFYUS TCFYIMP TCFYEXP
 51 SPACE 1
 52 $
 53 PRINT "AHARV = AREA HARVEST (1000 HECT)"
 54 PRINT "YIELD = YIELD (MET TONS/HECT)"
 55 PRINT "BSTOCK = BEGINNING STOCKS"
 56 PRINT "PROD = PRODUCTION"
 57 PRINT "DFEED = DOMESTIC FEED USE"
 58 PRINT "CONS = DOMESTIC CONSUMPTION"
 59 PRINT "FYUS = FISCAL YEAR (JULY-JUNE) IMPORTS FROM U.S."
 60 PRINT "FYIMP = FISCAL YEAR IMPORTS (TOTAL)"
 61 PRINT "FYEXP = FISCAL YEAR EXPORTS"
 62 SPACE 1
 63 PRINT "** UNITS = 1000 METRIC TONS UNLESS OTHERWISE INDICATED **"
```

IFSDATA

Creates TDAM codes from the IFS codes, then uses the TDAM GET procedure to retrieve macroeconomic data from the TDAM logical group IFS. Also retrieves units for tabular headings.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

COUNTRY	Defined in COREPORT
NUMWKS	
SDRRATE	
TDIP	Defined in MACRO or MACROSAV
TDLP	
TDLGF	
UNITS	

VARIABLES RETURNED BY THE PROGRAM:

The various macroeconomic variables and their units are self-explanitory. See the program and MACRO or MACROSAV.

```
EDITING IFSDATA
   1 PROGRAM
   2 $
   3 $ GETS SELECTED IFS VARIABLES FROM TDAM
   4 $
   5 IMPORTS="  "
   6 EXPORTS="  "
   7 CURACCT="  "
   8 RESERVES="  "
   9 WEEKS="  "
  10 CPI="  "
  11 WPI="  "
  12 PCE="  "
  13 INDPROD="  "
  14 GDP="  "
  15 GNP="  "
  16 POP="  "
  17 EXRATE1="  "
  18 EXRATE2="  "
  19 $
  20 IMPORTSX="C",COUNTRY(I,),"L7D7AB"
  21 IMPORTS=TDAM(GET IMPORTSX)
  22 IMPORTS(LOCS(IMPORTS.EQ.-999999))=0
  23      UNITS(2,)=NAMELIT(TDUNITS)
  24      TDUNITS=" "
  25 $
  26 EXPORTSX="C",COUNTRY(I,),"L7D7AA"
  27 EXPORTS=TDAM(GET EXPORTSX)
  28 EXPORTS(LOCS(EXPORTS.EQ.-999999))=0
  29      UNITS(3,)=NAMELIT(TDUNITS)
  30      TDUNITS=" "
  31 $
  32 CURACCTX="C",COUNTRY(I,),"L7D8AW"
  33 CURACCT=TDAM(GET CURACCTX)
  34 CURACCT(LOCS(CURACCT.EQ.-999999))=0
  35      UNITS(4,)=NAMELIT(TDUNITS)
  36      TDUNITS=" "
  37 $
  38 RESERVEX="C",COUNTRY(I,),"LWS1WW"
  39 RESERVES=TDAM(GET RESERVEX)
  40 RESERVES(LOCS(RESERVES.EQ.-999999))=0
  41 RESERVES=RESERVES*SDRRATE
  42       CURRENCY=INTS(9 16)
  43         TDUNITS(CURRENCY)=" OF US $"
  44         FREE CURRENCY
  45      UNITS(5,)=NAMELIT(TDUNITS)
  46      TDUNITS=" "
  47 $
  48 WEEKS=(RESERVES/IMPORTS)*NUMWKS; WEEKS=WEEKS*(-1)
  49 IF(UNITS(2,1).EQ.°BILLIONS°) WEEKS=WEEKS/1000
  50 $
  51 CPIX="C",COUNTRY(I,),"L6W4WW"
  52 CPI=TDAM(GET CPIX)
  53 CPI(LOCS(CPI.EQ.-999999))=0
  54      UNITS(9,)=NAMELIT(TDUNITS)
  55      TDUNITS=" "
  56 $
  57 WPIX="C",COUNTRY(I,),"L6W3WW"
  58 WPI=TDAM(GET WPIX)
  59 WPI(LOCS(WPI.EQ.-999999))=0
  60      UNITS(10,)=NAMELIT(TDUNITS)
  61      TDUNITS=" "
  62 $
```

```
 63 PCEX="C",COUNTRY(I,),"L9W6FW"
 64 PCE=TDAM(GET PCEX)
 65 PCE(LOCS(PCE.EQ.-999999))=0
 66      UNITS(11,)=NAMELIT(TDUNITS)
 67      TDUNITS=" "
 68 $
 69 INDPRODX="C",COUNTRY(I,),"L6W6WW"
 70 INDPROD=TDAM(GET INDPRODX)
 71 INDPROD(LOCS(INDPROD.EQ.-999999))=0
 72      UNITS(12,)=NAMELIT(TDUNITS)
 73      TDUNITS=" "
 74 $
 75 GDPX="C",COUNTRY(I,),"L9W9BW"
 76 GDP=TDAM(GET GDPX)
 77 GDP(LOCS(GDP.EQ.-999999))=0
 78      UNITS(13,)=NAMELIT(TDUNITS)
 79      TDUNITS=" "
 80 $
 81 GNPX="C",COUNTRY(I,),"L9W9AW"
 82 GNP=TDAM(GET GNPX)
 83 GNP(LOCS(GNP.EQ.-999999))=0
 84      UNITS(14,)=NAMELIT(TDUNITS)
 85      TDUNITS=" "
 86 $
 87 POPX="C",COUNTRY(I,),"L9W9ZW"
 88 POP=TDAM(GET POPX)
 89 POP(LOCS(POP.EQ.-999999))=0
 90      UNITS(15,)=NAMELIT(TDUNITS)
 91      TDUNITS=" "
 92 $
 93 EXRATE1X="C",COUNTRY(I,),"LWWWAE"
 94 EXRATE1=TDAM(GET EXRATE1X)
 95 EXRATE1(LOCS(EXRATE1.EQ.-999999))=0
 96      UNITS(7,)=NAMELIT(TDUNITS)
 97      TDUNITS=" "
 98 $
 99 EXRATE2X="C",COUNTRY(I,),"LWWWAG"
100 EXRATE2=TDAM(GET EXRATE2X)
101 EXRATE2(LOCS(EXRATE2.EQ.-999999))=0
102      UNITS(8,)=NAMELIT(TDUNITS)
103      TDUNITS=" "
104 FREEIF IMPORTSX EXPORTSX CURACCTX RESERVEX CPIX XPIX PCEX INDPRODX
105 FREEIF GDPX GNPX POPX EXRATE1X EXRATE2X TDID TDUNITS TDVERB TDERROR TDUSER
106 FREEIF TDLUBY TDDSETU TDLENGX TDDECLOC TDFORMAT TDSETUBY TDDOCINF TDSOURCE
```

March 17, 1981

MACRO

Calls IFSDATA and prints out macroeconomic tables.

PERIODIC CHANGES REQUIRED: The variables TDIP, TDLP, YEAR, and SDRRATE must be updated quarterly and yearly as the database is updated.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

NAME — Defined in COREPORT or BATCHRPT
TERM

VARIABLES DEFINED IN THE PROGRAM:

NUMWKS - Multiplier for determining weeks of import coverage. Set to 52 for annual, 13 for quarterly.

SDRRATE - Dollar/SDR conversion rate from International Financial Statistics.

TDLGF - Character array containing the TDAM logical group (IFS) and frequency ("a" for annual, "q" for quarterly).

TDIP, TDLP - TDAM parameters containing the first and last periods in the time series to be retrieved.

```
EDITING MACRO
   1 PROGRAM
   2 $
   3 $ CREATES TABLES OF SELECTED ANNUAL AND QUARTERLY
   4 $ IFS VARIABLES USING IFS DATA IN TDAM.  THESE
   5 $ TABLES WILL BE USED IN PREPARING A QUARTERLY
   6 $ REPORT FOR OGSM.
   7 $
   8 $
   9 $ TWO CHARACTER LITERAL ARRAYS ARE NECESSARY BEFORE EXECUTING THIS
  10 $ PROGRAM: A COUNTRY ARRAY WITH THE IFS COUNTRY NUMBERS AS ELEMENTS
  11 $ AND A NAME ARRAY CONTAINING ENGLISH NAMES FOR THE COUNTRIES IN
  12 $ THE SAME ORDER AS IDENTIFIED THE COUNTRY ARRAY.  THE FOLLOWING ASSUMES
  13 $ ALL COUNTRY NUMBERS ARE 3 DIGITS AND ALL COUNTRY NAMES ARE
  14 $ LESS THAT 30  CHARACTERS LONG.
  15 $      COUNTRY = (NO. COUNTRIES , 3 : "XXX","YYY","ZZZ")
  16 $      NAME = (NO. COUNTRIES , 30 : "NAMEXXX","NAMEYYY","NAMEZZZ")
  17 $
  18 $
  19 VARIABLE = °YEAR°,°IMPORTS°,°EXPORTS°,°CURACCT°,°RESERVES°,°WEEKS°
  20     VARIABLE = VARIABLE,°EXRATE1°,°EXRATE2°,°CPI°,°WPI°,°PCE°,°INDPROD°
  21     VARIABLE = VARIABLE,°GDP°,°GNP°,°POP°
  22                 TDDOCSW = 2
  23                 $
  24                 TDIP = 1976001    $ REQUIRES YEARLY UPDATE
  25                 TDLP = 1979001
  26                 TDLGF = "IFSA"
  27       YEAR = 1976 1977 1978 1979 $ REQUIRES YEARLY UPDATE TO MATCH ABOVE
  28       UNITS = (15,2:°X°)
  29 $
  30 SDRRATE=ARRAY(4: 1.16183,1.21471,1.30279,1.31733) $ REQUIRES YEARLY UPDATE
  31 $
  32       $
  33 LOAD TDAM
  34       GET IFSDATA ON REPORT
  35       NUMWKS=52
  36       EXECUTE IFSDATA
  37       $
  38       ANNUAL = ARRAY(15,4:)
  39       ANNUAL(1,) = YEAR
  40       ANNUAL(2,) = IMPORTS
  41       ANNUAL(3,) = EXPORTS
  42       ANNUAL(4,) = CURACCT
  43       ANNUAL(5,) = RESERVES
  44       ANNUAL(6,) = WEEKS
  45       ANNUAL(7,) = EXRATE1
  46       ANNUAL(8,) = EXRATE2
  47       ANNUAL(9,) = CPI
  48       ANNUAL(10,)= WPI
  49       ANNUAL(11,)= PCE
  50       ANNUAL(12,)= INDPROD
  51       ANNUAL(13,)= GDP
  52       ANNUAL(14,)= GNP
  53       ANNUAL(15,)= POP
  54       $
  55       FREE IMPORTS EXPORTS CURACCT RESERVES WEEKS EXRATE1 EXRATE2
  56       FREE SDRRATE CPI WPI PCE INDPROD GDP GNP POP
  57                 TDIP = 1979002    $ REQUIRES QUARTERLY UPDATE
  58                 TDLP = 1980003
  59                 TDLGF = "IFSQ"
  60       $
  61       SDRRATE=(6: 1.29110,1.31775,1.31733,1.25118,1.32438,1.31244)
  62       $
```

```
 63       YEAR = 1979.1 1979.2 1979.3 1979.4 1980.1 1980.2   $ REQUIRES UPDATE   90
 64       $
 65       NUMWKS=13
 66       EXECUTE IFSDATA
 67       $
 68       UNLOAD TDAM
 69       $
 70       QUARTERS = ARRAY(15,6:)
 71       QUARTERS(1,) = YEAR
 72       QUARTERS(2,) = IMPORTS
 73       QUARTERS(3,) = EXPORTS
 74       QUARTERS(4,) = CURACCT
 75       QUARTERS(5,) = RESERVES
 76       QUARTERS(6,) = WEEKS
 77       QUARTERS(7,) = EXRATE1
 78       QUARTERS(8,) = EXRATE2
 79       QUARTERS(9,) = CPI
 80       QUARTERS(10,)= WPI
 81       QUARTERS(11,)= PCE
 82       QUARTERS(12,)= INDPROD
 83       QUARTERS(13,)= GDP
 84       QUARTERS(14,)= GNP
 85       QUARTERS(15,)= POP
 86       $
 87       FREEIF IMPORTS EXPORTS CURACCT RESERVES WEEKS EXRATE1 EXRATE2
 88       FREEIF SDRRATE CPI WPI PCE INDPROD GDP GNP POP IFSDATA
 89       FREEIF NUMWKS TDIP TDLP TDLGF
 90       $
 91       UNITS(1,) = 'YEAR.QUARTER'
 92       UNITS(6,) = 'WEEKS      '
 93       $
 94  NEWPAGE
 95     PRINTSPECS(ANNUAL:SUPPRESS 0)
 96     PRINTSPECS(QUARTERS:SUPPRESS 0)
 97     T = NAME(I)," MACROECONOMIC CONDITIONS"
 98     $
 99     IF(TERM.NE."M") GO TO WIDE
100     TABULATE VARIABLE UNITS ANNUAL(,1) ANNUAL(,2):BORDERS SPACE 5 TITLE T
101     TABULATE VARIABLE UNITS ANNUAL(,3) ANNUAL(,4):BORDERS SPACE 5

102     $
103     TABULATE VARIABLE UNITS QUARTERS(,1) QUARTERS(,2) QUARTERS(,3):BORDERS SPACE 5
104     TABULATE VARIABLE UNITS QUARTERS(,4) QUARTERS(,5) QUARTERS(,6):BORDERS SPACE 5
105     $
106     GO TO NOTES
107  WIDE:
108     TABULATE VARIABLE UNITS ANNUAL  :BORDERS SPACE 5 TITLE T
109     TABULATE VARIABLE UNITS QUARTERS :BORDERS SPACE 5
110     $
111  NOTES:
112     PRINT "CURACCT = BALANCE ON CURRENT ACCOUNT"
113     PRINT "RESERVES = INTERNATIONAL RESERVES"
114     PRINT "WEEKS = WEEKS OF IMPORT COVERAGE"
115     PRINT "EXRATE1 = EXCHANGE RATE, LOCAL CURRENCY/$, END OF PERIOD"
116     PRINT "EXRATE2 = EXCHANGE RATE, $/LOCAL CURRENCY, END OF PERIOD"
117     PRINT "PCE = PRIVATE CONSUMPTION"
118     PRINT "INDPROD = INDUSTRIAL PRODUCTION"
119     PRINT "POP = POPULATION"
120     SPACE 1
121     PRINT "DATA SOURCE: INTERNATIONAL FINANCIAL STATISTICS, IMF"
122     $
123  DATE = TDDTLU; DATE
124  NEWPAGE
125  FREEIF UNITS T VARIABLE ANNUAL QUARTERS DATE
```

MACROSAV

Similar in function to MACRO, but does not free or overwrite data after tabulation, thus saving it for operator use.

PERIODIC CHANGES REQUIRED: The variables TDIP, TDLP, and YEAR must be updated yearly as the database is updated.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

COUNTRY Defined in COREPORT or BATCHRPT

VARIABLES DEFINED IN THE PROGRAM:

TDLGF - Character array containing the TDAM logical group (IFS) and frequency ("a" for annual, "q" for quarterly).

TDIP - TDAM parameters containing the first and last periods in the time series to be retrieved.

IMPORTS - Imports
EXPORTS - Exports
CURACCT - Balance on Current Account
RESERVES - International Reserves
EXRATE1 - Exchange Rate, Local Currency/$, End of Period
EXRATE2 - Exchange Rate, $/Local Currency, End of Period
CPI - Consumer Price Index
WPI - Wholesale Price Index
PCE - Private Consumption Expenditures (Index number)
INDPROD - Industrial Production (Index number)
GDP - Gross Domestic Product
GNP - Gross National Product
POP - Population

Units are specified on output.

```
EDITING MACROSAV
  1 PROGRAM
  2 $
  3 $ TWO CHARACTER LITERAL ARRAYS ARE NECESSARY BEFORE EXECUTING THIS
  4 $ PROGRAM: A COUNTRY ARRAY WITH THE IFS COUNTRY NUMBERS AS ELEMENTS
  5 $ AND A NAME ARRAY CONTAINING ENGLISH NAMES FOR THE COUNTRIES IN
  6 $ THE SAME ORDER AS IDENTIFIED THE COUNTRY ARRAY.  THE FOLLOWING ASSUMES
  7 $ ALL COUNTRY NUMBERS ARE 3 DIGITS AND ALL COUNTRY NAMES ARE
  8 $ LESS THAT 20  CHARACTERS LONG.
  9 $     COUNTRY = (NO. COUNTRIES , 3 : "XXX","YYY","ZZZ")
 10 $     NAME = (NO. COUNTRIES , 30 : "NAMEXXX","NAMEYYY","NAMEZZZ")
 11 $
 12                TDDOCSW = 2
 13                $
 14                TDIP = 1961001   $ REQUIRES YEARLY UPDATE
 15                TDLP = 1980001
 16                TDLGF = "IFSA"
 17       YEAR = INTS(1961 1980) $ REQUIRES YEARLY UPDATE TO MATCH ABOVE
 18       UNITS = (15,2:°X°)
 19       $
 20       LOAD TDAM;GET IFSDATA ON REPORT
 21       EXECUTE IFSDATA
 22       UNLOAD TDAM;FREEIF IFSDATA TDDOCSW TDIP TDLP TDLGF
 23       UNITS(1,) = °YEAR°
 24       UNITS(5,)=°SDR°
 25       $
 26       LOAD HENCEFORTH PRINTSPECS
 27 HENCEFORTH PS IS PRINTSPECS;HENCEFORTH CH IS CHARACTER
 28 HENCEFORTH A IS ARRAY;HENCEFORTH H IS HEADING
 29 $
 30 PS(YEAR:    H A(4,8:"  YEAR"))
 31 PS(IMPORTS: H A(4,8:"IMPORTS         ",CH(UNITS(2,))))
 32 PS(EXPORTS: H A(4,8:"EXPORTS         ",CH(UNITS(3,))))
 33 PS(CURACCT: H A(4,8:"CURACCT         ",CH(UNITS(4,))))
 34 PS(RESERVES:H A(4,8:"RESERVES        ",CH(UNITS(5,))))
 35 PS(EXRATE1: H A(4,8:"EXRATE1         ",CH(UNITS(7,))))
 36 PS(EXRATE2: H A(4,8:"EXRATE2         ",CH(UNITS(8,))))
 37 PS(CPI:     H A(4,8:"  CPI           ",CH(UNITS(9,))))
 38 PS(WPI:     H A(4,8:"  WPI           ",CH(UNITS(10,))))
 39 PS(PCE:     H A(4,8:"  PCE           ",CH(UNITS(11,))))
 40 PS(INDPROD: H A(4,8:"INDPROD         ",CH(UNITS(12,))))
 41 PS(GDP:     H A(4,8:"  GDP           ",CH(UNITS(13,))))
 42 PS(GNP:     H A(4,8:"  GNP           ",CH(UNITS(14,))))
 43 PS(POP:     H A(4,8:"  POP           ",CH(UNITS(15,))))
 44 $
 45 HENCEFORTH PS IS PS;HENCEFORTH H IS H
 46 HENCEFORTH CH IS CH;HENCEFORTH A IS A
 47       UNLOAD HENCEFORTH PRINTSPECS
 48       $
 49 TABULATE YEAR IMPORTS EXPORTS CURACCT RESERVES INDPROD
 50 $
 51 TABULATE EXRATE1 EXRATE2 CPI WPI PCE GDP GNP POP
 52 $
 53    NOTES:
 54       PRINT "CURACCT = BALANCE ON CURRENT ACCOUNT"
 55       PRINT "RESERVES = INTERNATIONAL RESERVES"
 56       PRINT "EXRATE1 = EXCHANGE RATE, LOCAL CURRENCY/$, END OF PERIOD"
 57       PRINT "EXRATE2 = EXCHANGE RATE, $/LOCAL CURRENCY, END OF PERIOD"
 58       PRINT "PCE = PRIVATE CONSUMPTION"
 59       PRINT "INDPROD = INDUSTRIAL PRODUCTION"
 60       PRINT "POP = POPULATION"
 61       SPACE 1
 62       PRINT "DATA SOURCE: INTERNATIONAL FINANCIAL STATISTICS, IMF"
 63 FREEIF UNITS
```

NAMEFIND

Used in the batch mode to help create a CHECKPOINT file. Calls GETCODE to search through the various REGIONS to match IFS or OASIS codes with country/region names.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

CODEAR - Character literal array of IFS or OASIS codes.

COUNTRY - N x 3 character array containing a list of IFS codes.

KK - Array of integers from 5 through 34

LL - Array of integers from 1 through 3

NAME - N x 30 character array of country namkes corresponding to codes in COUNTRY.

VARIABLES RETURNED BY THE PROGRAM:

The IFS codes for the countries desired are placed into COUNTRY. The matching country names are placed in NAME.

```
EDITING NAMEFIND
  1 PROGRAM
  2 $
  3 ONERROR(NOMESSAGE NOTRACE CONTINUE)
  4 $
  5 FOR I=1,N
  6     INDX=3*I
  7     IF (CODEAR(INDX).EQ." ") GO TO IFSFIND
  8     INTGR=INDX-2,INDX-1,INDX
  9     COUNTRY(I,)=CODEAR(INTGR)
 10     EXECUTE GETCODE
 11     NAME(I,)=REGIONA(OSFLOC,KK)
 12     GO TO LOOPEND
 13     $
 14     IFSFIND:IFSLOC=0
 15             OASCODE=(I,2:"  ")
 16             FOR J=1,10
 17                 GET OBJECT(°REGION°,J) ON REPORT
 18                 REGIONA=OBJECT(°REGION°,J)
 19                 FREEIF OBJECT(°REGION°,J)
 20                 $
 21                 INTGR=INDX-2,INDX-1
 22                 OASCODE=CODEAR(INTGR)
 23                 LOC1=LOCS(OASCODE(I,1).EQ.REGIONA(,35))
 24                 LOC2=LOCS(OASCODE(I,2).EQ.REGIONA(,36))
 25                 IFSLOC=INTERSECTION(LOC1,LOC2)
 26                 $
 27                 IF (IFSLOC.GT.0) GO TO IDENT
 28                 FREEIF REGIONA
 29             ENDLOOP J
 30             $
 31     IDENT:COUNTRY(I,)=REGIONA(IFSLOC,LL)
 32           NAME(I,)=REGIONA(IFSLOC,KK)
 33           $
 34 LOOPEND:FREEIF REGIONA
 35         ENDLOOP I
 36         $
 37 FREEIF KK LL OASCODE LOC1 LOC2 IFSLOC CODEAR INDX INTGR

February 25, 1981
```

OSFDATA

Uses the OASIS GETTDTABLE command to retrieve grain data from the OSF logical group. If forecasts are requested, it also determines the last year in which data is reported for the production, consumption, and net imports series.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

ID
LGF
OSF — Defined in COREPORT or BATCHRPT
PASSWD
TDIP
TDLP
TYPE

VARIABLES RETURNED BY THE PROGRAM:

GRADATA1 through GRADATA4 - Tables containing grain data.

NNET - 4-element array containing net imports calculations.

SPREND, NETEND, UDTEND - If the data series for forecasting are not up-to-date, these variables contain an index of the last years which are available. If data is available for all 20 years, these variables are set to 21.

```
EDITING OSFDATA
  1 PROGRAM
  2 GRDATA1=ARRAY(20,11:)                    $WHEAT
  3 GRDATA2=ARRAY(20,11:)                    $RICE
  4 GRDATA3=ARRAY(20,11:)                    $COARSE GRAIN
  5 GRDATA4=ARRAY(20,11:)                    $TOTAL CEREAL
  6 $
  7 SPREND=ARRAY(4,5:)
  8 NETEND=ARRAY(4,5:)
  9 UDTEND=ARRAY(4,5:)
 10 $
 11 OSFAR=ARRAY(11,24:"                              ")     $ CREATES ARRAY OF
 12 OSFAR(,1)="O"                                           $ TDAM CODES FOR
 13 OSFAR(,2)="S"                                           $ GETTDTABLE
 14 OSFAR(,3)="F"
 15 OSFAR(,4)=LGF
 16 OSFAR(,7)="AYCSSUUUSSU"
 17 OSFAR(,8)="HHIPMXFDMMX"
 18 OSFAR(,9)="HHTRTTETUFJ"
 19 $
 20 FOR K=1,11
 21   OSFAR(K,10)=OSF(,1)
 22   OSFAR(K,11)=OSF(,2)
 23 ENDLOOP K
 24 $
 25 $
 26 GRAIN=ARRAY(6:"WRCHIG")
 27 $
 28 $ LOOP BELOW IS REPEATED ONCE FOR EACH GRAIN TO BE RETREIVED
 29 $
 30 FOR K=1,3
 31       OSFAR(,5)=GRAIN(K)
 32       OSFAR(,6)=GRAIN(K+3)
 33       $
 34       TEMPAR=GETTDTAB(TDIP,TDLP,OSFAR,ID,PASSWD) $ RETRIEVE DATA FOR 1 GRAIN
 35       $
 36       IF (TYPE.NE.°EITHER°) GO TO BELOW
 37             SPREND(K,)=LOCS(TEMPAR(4,).EQ.-999999).GT.15              $
 38             IF (SPREND(K,1).EQ.0) SPREND(K,1)=21                      $
 39                                                                       $
 40             NETEND(K,)=LOCS(TEMPAR(5,).EQ.-999999).GT.15              $ FOR
 41             NETEND(K,)=NETEND(K,),LOCS(TEMPAR(6,).EQ.-999999).GT.15   $ FORECASTS
 42             IF (NETEND(K,1).EQ.0) NETEND(K,1)=21                      $ ONLY
 43                                                                       $
 44             UDTEND(K,)=LOCS(TEMPAR(8,).EQ.-999999).GT.15              $
 45             IF (UDTEND(K,1).EQ.0) UDTEND(K,1)=21                      $
 46       BELOW:
 47       $
```

```
48        FOR K1=1,11
49              TEMPAR(K1,LOCS(TEMPAR(K1,).EQ.-999999))=0      $ SET ANY MISSING DATA POINT TO 0
50        ENDLOOP K1
51        $
52        OBJECT("GRDATA",K)=TRANSPOSE(TEMPAR)        $ STORE THE DATA TABLE
53        GRDATA4=GRDATA4+TRANSPOSE(TEMPAR)           $ ADD TO TOTAL CEREAL TABLE
54 ENDLOOP K
55 $
56 GRDATA4(,2)=GRDATA4(,4)/GRDATA4(,1)      $ TOTAL YIELD MUST BE CALCULATED SEPARATELY
57 $
58 NNET(1,)=GRDATA1(,5)-GRDATA1(,6)  $
59 NNET(2,)=GRDATA2(,5)-GRDATA2(,6)  $
60 NNET(3,)=GRDATA3(,5)-GRDATA3(,6)  $ NET IMPORTS
61 NNET(4,)=GRDATA4(,5)-GRDATA4(,6)  $ CALCULATIONS
62 $
63 IF (TYPE.NE.'EITHER') GO TO GOBACK
64 $
65 $
66 SPREND(4,)=LOCS(SPREND(1,).GT.0),LOCS(SPREND(2,).GT.0),LOCS(SPREND(3,).GT.0) $
67             SPREND(4,)=MIN(SPREND(4,));IF (SPREND(4,1).EQ.0) SPREND(4,1)=21   $
68 NETEND(4,)=LOCS(NETEND(1,).GT.0),LOCS(NETEND(2,).GT.0),LOCS(NETEND(3,).GT.0) $ FORECASTS
69             NETEND(4,)=MIN(NETEND(4,));IF (NETEND(4,1).EQ.0) NETEND(4,1)=21   $ ONLY
70 UDTEND(4,)=LOCS(UDTEND(1,).GT.0),LOCS(UDTEND(2,).GT.0),LOCS(UDTEND(3,).GT.0) $
71             UDTEND(4,)=MIN(UDTEND(4,));IF (UDTEND(4,1).EQ.0) UDTEND(4,1)=21   $
72 $
73 GOBACK:
74 FREEIF OSFAR TEMPAR K K1 GRAIN
```

TABLES

On request, prints a summary of available regions. Allows the user to examine the IFS codes and country names within each region.

VARIABLES WHICH MUST BE DEFINED BEFORE EXECUTION:

TERM - Defined in COREPORT or BATCHRPT

```
 1 PROGRAM
 2 MARGINS(80)
 3 $
 4 SPACE 1
 5 PRINT "SUMMARY OF THE REGIONS AVAILABLE:"
 6 SPACE 1
 7 $
 8 PRINT "REGION NUMBER           REGION"
 9 PRINT "*********************************************"
10 PRINT "       1       MISCELLANEOUS"
11 PRINT "       2       INDUSTRIAL COUNTRIES & EUROPE"
12 PRINT "       3       AUSTRALIA,NZ,SOUTH AFRICA"
13 PRINT "       4       CENTRALLY PLANNED"
14 PRINT "       5       OIL EXPORTING"
15 PRINT "       6       OCEANIA"
16 PRINT "       7       NORTH AFRICA & MIDDLE EAST"
17 PRINT "       8       AFRICA"
18 PRINT "       9       OTHER WESTERN HEMISPHERE"
19 PRINT "      10       ASIA"
20 $
21 SPACE 2
22 $
23 HEAD=ARRAY(2,50:"   IFS              COUNTRY/                  OASIS")
24       HEAD(2, )="  CODES              REGION                   CODES"
25 $
26 REG:ASK "ENTER A REGION NUMBER:    ","NUM="
27     IF(NUM.LT.1 .OR. NUM.GT.10) GO TO REG
28     GET OBJECT(°REGION°,NUM) ON REPORT
29     $
30     SPACE 2
31     TEMPO=OBJECT(°REGION°,NUM);FREE OBJECT(°REGION°,NUM)
32     PRINT HEAD(1,)
33     PRINT HEAD(2,)
34     J=INTS(1,3);JJ=INTS(4,34);JJJ=INTS(35,36)
35     $
36     TABULATE TEMPO(,J) TEMPO(,JJ) TEMPO(,JJJ)
37     $
38     SPACE 2
39     ASKCHAR "DO YOU WISH TO SEE AN ADDITIONAL REGION? (Y OR N):    ","ANS="
40     IF (ANS.EQ."Y") GO TO REG
41 $
42 SPACE 1
43 PRINT "***** NOTE *****"
44 PRINT "THE OASIS CODES ARE ONLY PRINTED FOR REFERENCE, AND ARE"
45 PRINT "NOT NECESSARY TO RUN THE PROGRAM.  IF NO OASIS CODE IS"
46 PRINT "PRINTED FOR A COUNTRY, GRAIN DATA IS NOT AVAILABLE."
47 SPACE 1
48 PRINT "IF THE IFS CODE CONTAINS ANY ALPHABETIC CHARACTERS, NO"
49 PRINT "MACROECONOMIC DATA IS AVAILABLE."
50 PRINT "****************"
51 SPACE 2
52 MARG: IF (TERM.EQ."M") GO TO MAIN
53       MARGINS(155)
54       IF(TERM.EQ."B") MARGINS(140)
55  MAIN:
56 FREEIF TEMPO HEAD J JJ JJJ
```

COUNTRY.REPORT

IFS Codes by Region

REGIONS

REGION1 through REGION10 are text objects stored separately on REPORT. Columns 1-3 contain the IFS codes. Some of these are created for the program by combining a digit (corresponding to the proper region) and the OSF code. Columns 5-34 contain the country names. Columns 35-36 contain the OSF codes. Columns 73-80 contain editor-generated line numbers.

REGION1

0MI MISCELLANEOUS		00000100
001 WORLD	T6	00000200
0T3 WORLD LESS US, USSR	T3	00000300
0T5 WORLD LESS US	T5	00000400
099 REST OF WORLD	99	00000500
0T8 LDC°S	T8	00000600
098 UNKNOWN	98	00000700
097 AFLOAT	97	00000800

REGION2

110 INDUSTRIAL COUNTRIES + EUROPE	T9	00000100
111 UNITED STATES	U9	00000200
156 CANADA	CA	00000300
158 JAPAN	JP	00000400
1E6 WESTERN EUROPE	E6	00000500
1D5 WESTERN EUROPE LESS EC9	D5	00000600
1E2 EUROPEAN COMMUNITIES 12	E2	00000700
1E9 EUROPEAN COMMUNITIES 9	E9	00000800
1E5 EUROPEAN COMMUNITIES 5	E5	00000900
1E3 EUROPEAN COMMUNITIES 3	E3	00001000
122 AUSTRIA	AT	00001100
124 BELGIUM	BL	00001200
128 DENMARK	DK	00001300
132 FRANCE	FR	00001400
134 GERMANY	DE	00001500
136 ITALY	IT	00001600
137 LUXEMBOURG(GRAIN SEE BELGIUM)	BL	00001700
138 NETHERLANDS	NL	00001800
142 NORWAY	NO	00001900
144 SWEDEN	SE	00002000
146 SWITZERLAND	CH	00002100
112 UNITED KINGDOM	GB	00002200
170 OTHER EUROPE		00002300
1E7 OTHER WEST EUROPE	E7	00002400
9E8 EASTERN EUROPE	E8	00002500
9AL ALBANIA	AL	00002600
9BG BULGARIA	BG	00002700
9CS CZECHOSLOVAKIA	CS	00002800
816 FAEROE ISLANDS		00002900
172 FINLAND	FI	00003000
9DD GERMANY, GDR	DD	00003100
823 GIBRALTAR		00003200
174 GREECE	GR	00003300
9HU HUNGARY	HU	00003400
176 ICELAND		00003500
178 IRELAND	IE	00003600
181 MALTA	MT	00003700
968 POLAND	PL	00003800
182 PORTUGAL	PT	00003900
9RO ROMANIA	RO	00004000
184 SPAIN	ES	00004100
186 TURKEY	TR	00004200
9SU SOVIET UNION	SU	00004300
188 YUGOSLAVIA	YU	00004400

REGION3

190 AUSTRALIA, NZ, S.AFRICA		00000100
193 AUSTRALIA	AU	00000200
196 NEW ZEALAND	NZ	00000300
199 SOUTH AFRICA	ZA	00000400

REGION4

9T7 CENTRALLY PLANNED	T7	00000100
9E8 EASTERN EUROPE	E8	00000200
9AL ALBANIA	AL	00000300
9BG BULGARIA	BG	00000400
9CS CZECHOSLOVAKIA	CS	00000500
9DD GERMAN DEMOCRATIC REPUBLIC	DD	00000600
9HU HUNGARY	HU	00000700
968 POLAND	PL	00000800
9RO ROMANIA	RO	00000900
9SU SOVIET UNION	SU	00001000
188 YUGOSLAVIA	YU	00001100
522 CAMBODIA	KH	00001200
9CN CHINA, PEOPLES REPUBLIC	CN	00001300
9KP KOREA, NORTH	KP	00001400
9LA LAOS	LA	00001500
582 VIETNAM	VD	00001600
9CU CUBA	CU	00001700

REGION5

999 OIL EXPORTING		00000100
612 ALGERIA	DZ	00000200
536 INDONESIA	ID	00000300
429 IRAN	IR	00000400
433 IRAQ	IQ	00000500
443 KUWAIT	KW	00000600
672 LIBYA	LY	00000700
694 NIGERIA	NG	00000800
449 OMAN		00000900
453 QATAR		00001000
456 SAUDI ARABIA	SA	00001100
466 UNITED ARAB EMIRATES	AE	00001200
299 VENEZUELA	VE	00001300

REGION6

8A9	OCEANIA	A9	00000100
813	SOLOMON ISLANDS		00000200
819	FIJI		00000300
887	FRENCH POLYNESIA		00000400
826	GILBERT-TUVALU		00000500
829	GUAM		00000600
836	NAURU		00000700
839	NEW CALEDONIA		00000800
846	NEW HEBRIDES		00000900
853	PAPUA NEW GUINEA	PG	00001000
856	ST. HELENA		00001100
859	SAMOA, AMERICAN		00001200
862	SAMOA, WESTERN		00001300
866	TONGA		00001400

REGION7

4F3	NORTH AFRICA & MIDDLE EAST	F3	00000100
4F4	HIGH INCOME NORTH AFRICA	F4	00000200
4F5	LOW INCOME N.AFR. & MID-EAST	F5	00000300
405	OTHER MIDDLE EAST		00000400
612	ALGERIA	DZ	00000500
419	BAHRAIN		00000600
423	CYPRUS	CY	00000700
469	EGYPT	EG	00000800
429	IRAN	IR	00000900
433	IRAQ	IQ	00001000
436	ISRAEL	IL	00001100
439	JORDON	JO	00001200
443	KUWAIT	KW	00001300
446	LEBANON	LE	00001400
672	LIBYA	LY	00001500
686	MOROCCO	MA	00001600
449	OMAN		00001700
453	QATAR		00001800
456	SAUDI ARABIA	SA	00001900
463	SYRIA	SY	00002000
744	TUNISIA	TN	00002100
466	UNITED ARAB EMIRATES	AE	00002200
473	YEMEN ARAB REPUBLIC	YE	00002300
459	YEMEN, PDR	YD	00002400

6F1 AFRICA	F1	00000100
605 OTHER AFRICA		00000200
6F7 EAST AFRICA	F7	00000300
6F8 CENTRAL AFRICA	F8	00000400
6F9 NORTH AFRICA	F9	00000500
6G1 SOUTHERN AFRICA	G1	00000600
6G7 AFRICA EXCEPT NORTH AFRICA	G7	00000700
6H3 NORTH & SOUTH AFRICA	H3	00000800
612 ALGERIA	DZ	00000900
614 ANGOLA	AO	00001000
638 BENIN	DY	00001100
616 BOTSWANA		00001200
618 BURUNDI	BI	00001300
622 CAMEROON	CM	00001400
624 CAPE VERDE		00001500
626 CENTRAL AFRICAN EMPIRE		00001600
628 CHAD	TD	00001700
632 COMOROS		00001800
634 CONGO		00001900
611 DJIBOUTI		00002000
469 EGYPT	EG	00002100
642 EQUATORIAL GUINEA		00002200
644 ETHIOPIA	ET	00002300
634 GABON		00002400
648 GAMBIA		00002500
652 GHANA	GH	00002600
654 GUINEA	GN	00002700
656 GUINEA-BISSAU	GW	00002800
662 IVORY COAST	CI	00002900
664 KENYA	KE	00003000
666 LESOTHO		00003100
668 LIBERIA	LR	00003200
672 LIBYA	LY	00003300
674 MADAGASCAR	MD	00003400
676 MALAWI	MW	00003500
678 MALI	ML	00003600
682 MAURITANIA		00003700
684 MAURITIUS	MV	00003800
686 MOROCCO	MA	00003900
688 MOZAMBIQUE	MZ	00004000
692 NIGER	NE	00004100
694 NIGERIA	NG	00004200
696 REUNION	RE	00004300
698 RHODESIA-ZIMBABWE	RH	00004400
714 RWANDA	RW	00004500
716 SAO TOME & PRINCIPE		00004600
722 SENEGAL	SN	00004700
718 SEYCHELLES		00004800
724 SIERRA LEONE	SL	00004900
726 SOMALIA	SO	00005000
199 SOUTH AFRICA	ZA	00005100
732 SUDAN	SD	00005200
734 SWAZILAND		00005300
738 TANZANIA	TZ	00005400
742 TOGO	TG	00005500
744 TUNISIA	TN	00005600
746 UGANDA	UG	00005700
748 UPPER VOLTA	HV	00005800
636 ZAIRE	ZR	00005900
754 ZAMBIA	ZM	00006000

REGION9

205	OTHER WESTERN HEMISPHERE		00000100
2M7	LATIN AMERICA	M7	00000200
2M8	OTHER SOUTH AMERICA	M8	00000300
2M9	MID AMERICA (CENTRAL+MEXICO)	M9	00000400
2N3	LATIN AM EXCEPT ARG,MEX,BRAZ	N3	00000500
2N4	LATIN AMERICA EXCEPT ARG	N4	00000600
2N9	CENTRAL (INC. CARIBBEAN)	N9	00000700
213	ARGENTINA	AR	00000800
218	BOLIVIA	BO	00000900
223	BRAZIL	BR	00001000
228	CHILE	CL	00001100
233	COLUMBIA	CO	00001200
238	COSTA RICA	CR	00001300
243	DOMINICAN REPUBLIC	DO	00001400
248	ECUADOR	EC	00001500
253	EL SALVADOR	SV	00001600
258	GUATEMALA	GT	00001700
263	HAITI	HT	00001800
268	HONDURAS	HN	00001900
273	MEXICO	MX	00002000
283	PANAMA	PA	00002100
288	PARAGUAY	PY	00002200
293	PERU	PE	00002300
298	URUGUAY	UY	00002400
299	VENEZUELA	VE	00002500
311	ANTIGUA		00002600
313	BAHAMAS		00002700
316	BARBADOS		00002800
339	BELIZE		00002900
319	BERMUDA		00003000
9CU	CUBA	CU	00003100
321	DOMINICA		00003200
323	FALKLAND ISLANDS		00003300
326	GREENLAND		00003400
328	GRENADA		00003500
329	GUADELOUPE		00003600
333	GUIANA, FRENCH		00003700
336	GUYANA	GY	00003800
343	JAMAICA	JM	00003900
346	LEEWARD ISLANDS(& WINDWARD)	LW	00004000
349	MARTINIQUE		00004100
351	MONTSERRAT		00004200
353	NETHERLANDS ANTILLES		00004300
356	PANAMA CANAL ZONE		00004400
361	ST. KITTS-NEVIS-ANGUILLA		00004500
362	ST. LUCIA		00004600
363	ST. PIERRE & MIQUELON		00004700
364	ST. VINCENT		00004800
366	SURINAME	SR	00004900
369	TRINIDAD & TOBAGO	TT	00005000
373	US VIRGIN ISLANDS		00005100
376	WINDWARD ISLANDS(& LEEWARD)	LW	00005200

REGION10

5S1	ASIA	S1	00000100
5P3	ASIA EXCEPT JAPAN, PRC	P3	00000200
5P4	ASIA EX. JPN,PRC,INDIA,PAK	P4	00000300
5R1	OTHER ASIA	R1	00000400
5R4	HIGH INCOME EAST ASIA	R4	00000500
5R3	LOW INCOME EAST ASIA	R3	00000600
5R7	OTHER SOUTH ASIA	R7	00000700
5R8	OTHER SOUTHEAST ASIA	R8	00000800
512	AFGHANISTAN	AF	00000900
513	BANGALADESH	BD	00001000
516	BRUNEI		00001100
518	BURMA	BU	00001200
522	CAMBODIA	KH	00001300
528	CHINA, REP. OF (TAIWAN)	TA	00001400
5CN	CHINA, PEOPLES REPUBLIC	CN	00001500
532	HONG KONG	HK	00001600
534	INDIA	IN	00001700
536	INDONESIA	ID	00001800
9KP	KOREA, NORTH	KP	00001900
542	KOREA, SOUTH	KR	00002000
544	LAOS	LA	00002100
546	MACAO		00002200
548	MALAYSIA(INC. SABAH,SARAWAK)	MY	00002300
556	MALDIVES		00002400
558	NEPAL	NP	00002500
564	PAKISTAN	PK	00002600
566	PHILIPPINES	PH	00002700
5SS	SABAH	SS	00002800
5SW	SARAWAK	SW	00002900
576	SINGAPORE	SG	00003000
524	SRI LANKA	LK	00003100
578	THAILAND	TH	00003200
582	VIETNAM	VD	00003300
5VS	VIETNAM, SOUTH	VS	00003400